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EPS Analysis of Nominal STS-1 Flight

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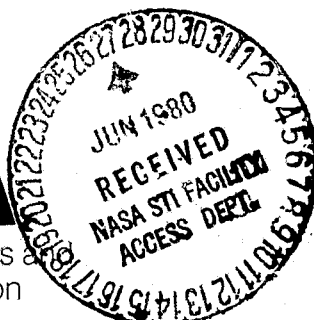
Mission Planning and Analysis Division

May 1980

NASA

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas




SHUTTLE PROGRAM

EPS ANALYSIS OF NOMINAL STS-1 FLIGHT

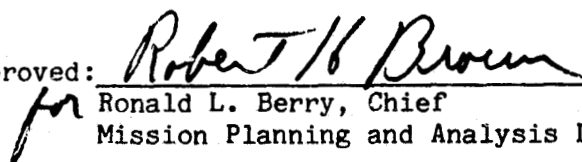
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SYMBOLS

AC	Alternating Current
ALC	Aft Load Controller
APC	Aft Power Controller
APU	Auxiliary Power Unit
CAS	Consumables Analysis Section
CCB	Change Control Board
CSD	Crew Systems Division
CTPD	Crew Training and Procedures Division
DC	Direct Current
D&C	Displays and Control
DFI	Development Flight Instrumentation
EA	Electronic Assembly
ECLSS	Environmental Control and Life Support System
EOM	End of Mission
EPDC	Electrical Power Distribution and Control
EPS	Electrical Power System
FCD	Flight Control Division
FCP	Fuel Cell Powerplant
FDM	Frequency Division Multiplexer
FES	Flash Evaporator System
FLC	Forward Load Controller
FOD	Flight Operations Directorate
FPC	Forward Power Controller
GNC	Guidance, Navigation, and Control
KW	Kilowatt
L/O	Liftoff

MD	Main Distributor
MDM	Multiplexer De-Multiplexer
MECO	Main Engine Cutoff
MET	Mission Elapsed Time
MPAD	Mission Planning and Analysis Division
MPC	Mid Power Controller
MSBLS	Microwave Scan Beam Landing System
N/A	Not Applicable
OEEUB	Orbiter Electrical Equipment Utilization Baseline
OFT	Orbital Flight Test
OIT	Orbiter Integrated Test
OMS	Orbital Maneuvering System
OOS	Onorbit Station
OS	Orbit Station
PCA	Power Control Assembly
P/L	Payload
PLB	Payload Bay
PS	Payload Station
PXI	Power Transfer Internal
RCS	Reaction Control System
RGA	Rate Gyro Assembly
SEPS	Spacecraft Electrical Power Simulator
SGSC	Strain Gage Signal Conditioner
SRB	Solid Rocket Booster
STS	Space Transportation System
T	SSME Thrust 90% (GMTLO)
TACAN	Tactical Air Navigation

TCS Thermal Control System

WBM Wide Band Mission

EPS ANALYSIS OF NOMINAL STS-1 FLIGHT

by M. D. Pipher and D. F. Wolfgram

1.0 SUMMARY

This document presents the results of an Electrical Power System (EPS) analysis of the planned Shuttle Transportation System flight one (STS-1) mission. The analysis was performed to assess the capability of the Orbiter EPS to support the planned flight and to provide program tape information and supplementary data specifically requested by the Flight Operations Directorate (FOD). The analysis was accomplished using the Orbiter version of the Spacecraft Electrical Power Simulator (SEPS) program, operating from a modified version of Orbiter Electrical Equipment Utilization Baseline (OEEUB) Revision 4. The results indicate that the nominal flight, as analyzed, is within the capabilities of the Orbiter power generation system, but that a brief, and minimal, current overload may exist between Main Distributor 1 and Mid Power Controller 1, and that Inverter 9 may be overloaded for extended periods of time. A comparison of results with launch commit criteria also indicates that some of the presently existing launch redlines may be violated during the terminal countdown. Sections 5.0 and 6.0 present the specifically requested tape information and supplementary data.

2.0 INTRODUCTION

This analysis is one of a series being performed by the Consumables Analysis Section (CAS) of the Mission Planning and Analysis Division (MPAD), in support of STS-1. The analyses are intended primarily to assess the capability of the Orbiter electrical power system to support the planned flight and those contingency procedures which have been, or are being, developed. Secondly, they are being used to provide specifically requested EPS systems performance data to the Flight Control Division (FCD), to provide representative component time histories to the Crew Training and Procedures Division (CTPD), and to generate required input to the MPAD and Crew Systems Division (CSD) Environmental Control and Life Support System (ECLSS) analysis programs. This particular analysis addresses the nominal STS-1 flight, as planned.

3.0 ANALYSIS DEFINITION

This analysis was performed using the SEPS program (ref. 1), operating from a modified version of the CAS EPS data base, as defined in OEEUB Revision 4 (ref.2). The analysis time line was derived from mission descriptive information contained in STS-1 Detailed Crew Activity Plan Revision D, STS-1 Flight Requirements Document Revision C, and STS-1 Operational Flight Profile Cycle 3 (refs. 3 through 5).

3.1 ORBITER EPS MODEL

The SEPS program models the generation and distribution of electrical power to Orbiter end-item loads in accordance with a predefined electrical equipment time line. For this analysis, the power generation subsystem model consisted of three independent Fuel Cell Powerplants (FCPs) having the steady-state characteristics predicted to pertain at STS-1 liftoff, see Table 3.1-I. Transient FCP characteristics were not considered.

The Electrical Power Distribution & Control (EPDC) subsystem model was that defined by Figure 3.1-1 and Table 3.1-II. In general, this model is compatible with the resistance circuit defined in Figures 4.5.6-9 and 4.5.6-10 of reference 6. The line resistances to the Forward Power Controllers (FPCs) and Aft Power Controllers (APCs) 4, 5, and 6, however, were modified in accordance with data derived from Level II EPDC Orbiter Integrated Test (OIT) run #2 (ref. 7). The configuration of the EPDC subsystem, used in this analysis, is that indicated by the closed contacts shown in Figure 3.1-1, unless otherwise indicated.

3.1.1 Orbiter EPS Model Limit Sensing

To facilitate the analysis, the SEPS program was commanded to seek out and identify violations of known EPS constraints. The constraints utilized in the analysis are those delineated in Table 3.1.1-I.

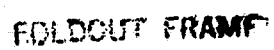
3.2 ANALYSIS USAGE OF ORBITER ELECTRICAL EQUIPMENT

The utilization of Orbiter electrical equipment in this analysis conforms to that defined in reference 2, with the following exceptions:

- a. The Microwave Scan Beam Landing System (MSBLS) assemblies were disabled for ascent.
- b. The ascent vent door sequence was changed so that all vent doors cycle only during prelaunch.
- c. A cryogenic preconditioning was assumed to eliminate pre-Main Engine Cutoff (MECO) cycling of the cryogenic heaters. This analysis modeled the first on-time of the cryogenic heaters at MECO + 5 minutes.

TABLE 3.1-I - FUEL CELL PERFORMANCE CHARACTERISTICS

FUEL CELL 1		FUEL CELL 2		FUEL CELL 3	
CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE
62.5	31.73	62.5	31.77	62.5	31.80
100.0	31.15	100.0	31.25	100.0	31.30
150.0	30.53	150.0	30.65	150.0	30.75
200.0	29.99	200.0	30.13	200.0	30.25
250.0	29.51	250.0	29.64	250.0	29.81
300.0	29.07	300.0	29.18	300.0	29.41
350.0	28.65	350.0	28.74	350.0	29.03
400.0	28.25	400.0	28.31	400.0	28.66
450.0	27.85	450.0	27.90	450.0	28.30





2



TABLE 3.1-II.- SEPS ORBITER ELECTRICAL POWER DISTRIBUTION
CIRCUIT BRANCH RESISTANCES

Branch Number	Branch Resistance (milliohms)	Branch Number	Branch Resistance (milliohms)	Branch Number	Branch Resistance (milliohms)
1	0.553	39	7.444	77	0.010
2	0.463	40	12.612	78	0.010
3	0.495	41	9.145	79	Not used
4	*	42	7.444	80	0.010
5	*	43	12.612	81	0.010
6	*	44	9.145	82	Not used
7	0.272	45	*	83	*
8	0.223	46	*	84	*
9	0.454	47	*	85	252.600
10	1.600	48	5.690	86	197.000
11	0.200	49	7.706	87	195.500
12	0.946	50	4.832	88	190.000
13	*	51	*	87	205.800
14	*	52	*	90	149.940
15	*	53	*	91	137.240
16	1.600	54	4.853	92	89.350
17	1.450	55	4.853	93	222.060
18	1.460	56	4.853	94	21.212
19	*	57	0.010	95	21.212
20	*	58	0.010	96	53.846
21	*	59	0.010	97	*
22	*	60	0.010	98	*
23	*	61	0.010	99	*
24	31.67	62	0.010	100	7.314
25	31.18	63	*	101	11.738
26	390.00	64	*	102	18.870
27	390.00	65	*	103	0.010
28	5.780	66	0.010	104	0.010
29	*	67	0.010	105	0.010
30	Not used	68	0.010	106	0.010
31	Not used	69	*	107	0.010
32	*	70	7.920	108	0.010
33	18.310	71	8.480	109	*
34	20.575	72	6.660	110	*
35	19.495	73	*	111	*
36	*	74	*	112	*
37	*	75	*	113	*
38	*	76	Not used	114	*

* Resistance computed at time of circuit solution, based upon instantaneous load

TABLE 3.1-II.- Continued

Branch Number	Branch Resistance (milliohms)	Branch Number	Branch Resistance (milliohms)	Branch Number	Branch Resistance (milliohms)
115	52.140	153	0.010	191	0.010
116	137.445	154	23.747	192	0.010
117	67.660	155	11.972	193	*
118	69.140	156	23.785	194	21.700
119	52.470	157	0.975	195	41.000
120	0.010	158	0.765	196	21.700
121	0.010	159	0.925	197	41.000
122	69.060	160	*	198	21.700
123	106.270	161	*	199	41.000
124	32.100	162	*	200	21.700
125	25.560	163	*	201	41.000
126	0.010	164	*	202	0.010
127	0.010	165	*	203	146.000
128	0.010	166	0.010	204	0.010
129	0.010	167	0.010	205	146.000
130	5.255	168	0.010	206	134.000
131	5.155	169	0.010	207	131.000
132	4.140	170	0.010	208	131.000
133	*	171	0.010	209	0.010
134	*	172	*	210	134.000
135	*	173	*	211	134.000
136	*	174	*	212	131.000
137	*	175	*	213	131.000
138	*	176	*	214	0.010
139	0.010	177	*	215	134.000
140	0.010	178	1.080	216	937.000
141	0.010	179	1.040	217	937.000
142	0.010	180	1.110	218	6.968
143	0.010	181	*	219	6.168
144	0.010	182	*	220	0.010
145	*	183	*	221	0.010
146	*	184	0.010	222	0.010
147	*	185	0.010	223	0.010
148	0.010	186	0.010	224	0.010
149	0.010	187	0.010	225	0.748
150	0.010	188	*	226	0.200
151	0.010	189	*	227	0.200
152	0.010	190	0.010	228	0.228

* Resistance computed at time of circuit solution based upon instantaneous load

TABLE 3.1-II.- Concluded

Branch Number	Branch Resistance (milliohms)	Branch Number	Branch Relistance (milliohms)	Branch Number	Branch Relistance (milliohms)
229	0.245				
230	2.152				
231	0.200				
232	0.200				
233	0.200				
234	185.000				
235	185.000				
236	185.000				
237	185.000				
238	Not used				
239	Not used				
240	0.010				

* Resistance computed at time of circuit solution, based upon instantaneous load

TABLE 3.1.1-I.- EPS ANALYSIS CONSTRAINTS

Description	Limit
BUS UNDER VOLTAGE (VOLTS)	
Main Distributor (MD) - 1,2,3,	27.0
Panel - 014, 015, 016	25.5
Forward Power Controller (FPC) - 1,2,3,	26.2
Forward Load Controller (FLC) - 1,2,3,	26.2
Mid Power Controller (MPC) - 1,2,3,	27.0
Aft Power Controller (APC) - 1,2,3,4,5,6	26.1.
Aft Load Controller (ALC) - 1,2,3	26.1
Essential Bus - 1BC, 2CA, 3AB	25.25
SRB Bus A/C - Left, Right	26.15
SRB Bus B/C - Left, Right	26.15
SRB Bus C - Left, Right	25.6
Payload (P/L) Main Bus at $X_0 = 645$	27.0
P/L Aft Body at $X_0 = 1307$ - B,C	25.5
P/L Aux Bus - A,B	26.2
P/L Aux Bus at $X_0 = 645$ - A,B	26.2
P/L Bus MS/PS/OOS	24.2
CURRENT OVERLOAD (AMPS)	
Fuel Cell Powerplant (FCP) - 1,2,3	545.0
FCP (1,2,3) to Essential Bus (1BC, 2CA, 3AB)	20.0
MD (1,2,3) to MPC (1,2,3)	100.0
MD (1,2,3) to Panel (014, 015, 016)	70.0
MD (1,2,3) to APC (4,5,6)	300.0
MD (1,2,3) to FPC (1,2,3)	450.0, 450.0, 300.0
FPC (1,2,3) to FLC (1,2,3)	35.0
MPC (2,3) to Essential Bus 1	10.0
MPC (1,3) to Essential Bus 2	10.0
MPC (1,2) to Essential Bus 3	10.0
APC (4,5,6) to APC (1,2,3)	150.0
APC (4,5,6) to ALC (1,2,3)	100.0
FCP3 to P/L Main Bus at $X_0 = 645$	441.2
APC (2,3) to P/L Aft Body at $X_0 = 1307$ (B,C)	80.0
MPC (1,2) to P/L Aux Bus (A,B)	20.0
FUEL CELL POWER (KILOWATTS)	
FCP Maximum Power - 1,2,3 (15 minutes)	12.0
FCP Minimum Power - 1,2,3 (1 hour)	2.0

TABLE 3.1.1-I.- EPS ANALYSIS CONSTRAINTS - Concluded

Description	Limit
INVERTER OVERLOAD 100-150% of rated load ¹ 150-200% of rated load ¹ Greater than 200% of rated load	30 minutes 2 minutes Instantaneous

¹ Inverter Overload Operating Time

- Operating time at overloads between 100 and 150% and between 150 and 200% of rated load is cumulative.
- Three minutes of operating time below 100% of rated load are required to work off 1 minute of operating time at overloads between 100 and 150% of rated load.
- Forty-five minutes of operating time below 100% of rated load are required to work off 1 minute of operating time at overloads between 150 and 200% of rated load.

- d. The ascent lighting configuration was changed to correspond to the usage approved at the September 6, 1979 Level III Change Control Board (CCB) meeting. These changes may be summarized as follows:

<u>Component</u>	<u>CAS EPS Data Base</u>	<u>Analysis Usage</u>
Panel Lights - Right	Not used for ascent	On bright for ascent
Glareshield Floodlights	Not used for ascent	On bright for ascent
Left Overhead Floodlight A	Not used for ascent	On bright for ascent
Console Floodlights	Not used for ascent	On bright for ascent

- e. Ascent heater duty cycles were averaged over time in accordance with the latest available thermal analysis data (refs 8 and 9). This resulted in some differences as to when the heaters are enabled, as compared to the OEEUB Revision 4 data. These differences may be summarized as follows:

<u>Component</u>	<u>CAS EPS Data Base</u>	<u>Analysis Usage</u>
Reaction Control System (RCS) Engine Heaters	Enabled during ascent	Disabled during ascent
Vernier Engine Heaters	Enabled during ascent	Disabled during ascent
H ₂ O Nozzle Heaters	Enabled during ascent	Disabled during ascent
Fuel Feedline Heaters	"A" enabled during ascent "B" disabled during ascent	"A" disabled during ascent "B" enabled during ascent
Fuel Drain Line Heaters	"A" enabled during ascent "B" disabled during ascent	"A" disabled during ascent "B" enabled during ascent
Oil Line Heaters	"A" enabled from pwr xfr int (PXI) to Liftoff (L/O) - 5 min	"A" enabled from PXI to L/O
Feedwater Line Heaters	Two "A" heaters in both the primary and secondary systems on during ascent	Four "A" heaters in the secondary system on during ascent
High Load and Topping Duct Heaters	Heater no. 1 on from PXI to radiator deployment	Heater no. 1 on from PXI to L/O - 5 min and from SRB separation to OMS-2

Water Spray Boiler (WSB)
Tank/Boiler Heater

"A" heaters enabled
from PXI to L/O - 5
min, then disabled

"A" heaters enabled
from L/O - 4 min to
OMS-2

- f. The Auxiliary Power Unit (APU) water heaters were used from PXI to End-of-Mission (EOM).

3.3 ANALYSIS TIME LINE

The nominal STS-1 flight time line, utilized in the performance of this analysis, is illustrated in Figure 3.3-1.

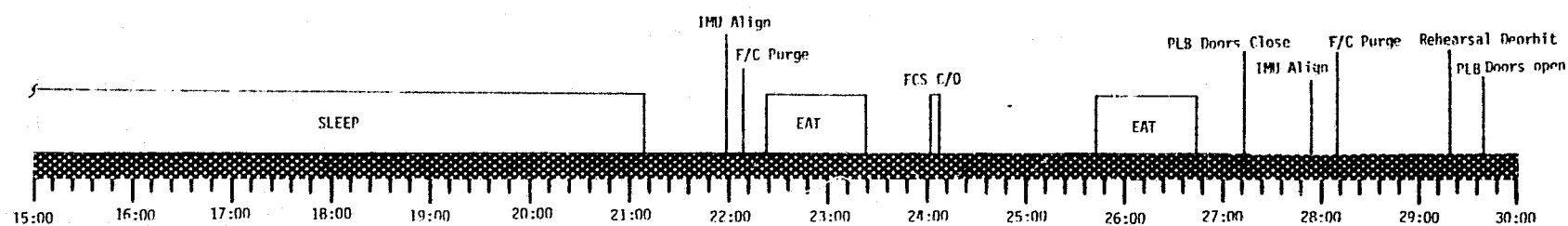
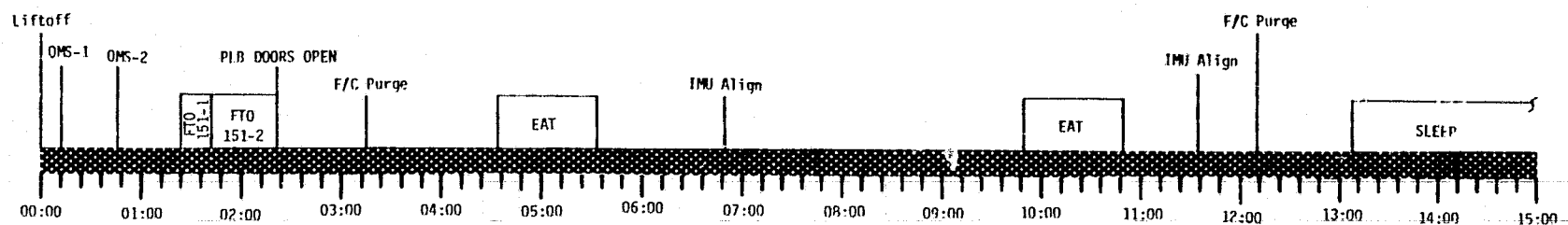


Figure 3.1-1. - Nominal STS-1 event timeline

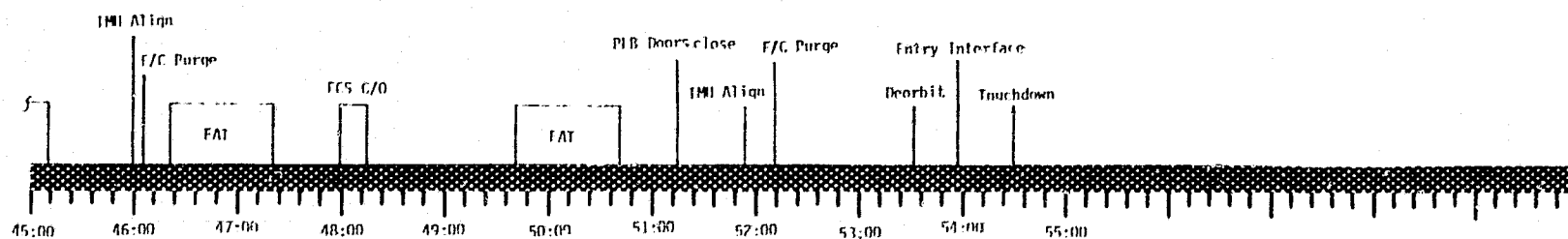
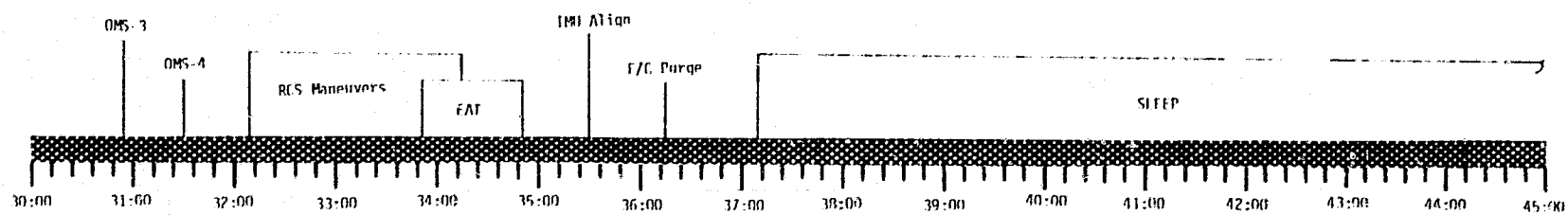


Figure 3.3-1. - Concluded

4.0 STS-1 EPS ANALYSIS

The results, conclusions, and recommendations resulting from this analysis, of the planned STS-1 flight, are discussed in the sections which follow.

4.1 RESULTS

Figure 4.1-1 presents the maximum, minimum, and nominal profiles of total source power to be expected during the nominal STS-1 flight, as analyzed. The maximum and minimum profiles shown represent the probability distributions that the power level due to pseudo-random Thermal Control System (TCS) heater cycling will occur below the maximum profile 99% of the time and above the minimum 99% of the time. A review of this figure indicates that the peak power levels to be expected during ascent, onorbit, and entry are 29.12 kw, 28.8 kw, and 29.4 kw, respectively. The prelaunch peak power level of 30.35 kw occurs at 20 seconds prior to liftoff. The ascent peak power level of 29.12 kw occurs at 5 minutes after MECO. A further review of the figure indicates that the nominal onorbit power level can be expected to range between 15.2 kw and 25.8 kw, but that it may peak as high as 28.8 kw or fall as low as 13.5 kw.

Figures 4.1-2 through 4.1-13 present profiles of source power, current, and voltage for each FCP, and voltage profiles for main buses 1, 2 and 3 at the Main Distributors (MDs). A review of these figures indicates that the nominal source power levels of FCPs 1, 2 and 3 can be expected to fall within the following limits:

<u>FCP</u>	<u>Prelaunch*</u>	<u>Ascent</u>	<u>Onorbit</u>	<u>Entry</u>
1	9.5 to 10.1 kw	7.5 to 9.7 kw	4.8 to 8.5 kw	6.6 to 9.5 kw
2	9.2 to 9.6 kw	7.3 to 9.3 kw	5.1 to 8.3 kw	6.8 to 9.4 kw
3	9.8 to 10.5 kw	7.7 to 10.1 kw	5.3 to 8.9 kw	7.2 to 10.2 kw

* Internal power (L/O - 4 min 56 sec to liftoff)

The average FCP onorbit power levels can be expected to be approximately 6.4 kw, 6.2 kw, and 6.6 kw, respectively.

4.1.1 Constraints Assessment

The SEPS program constraints analysis routines tested for violations of the constraints identified in Table 3.1.1-I, at each timepoint throughout this analysis. Only two constraint violations were observed for the flight as analyzed, one involving extended overloads of Inverter 9, the other involving current overloads between Main Distributor 1 (MD1) and Mid Power Controller 1 (MPC1).

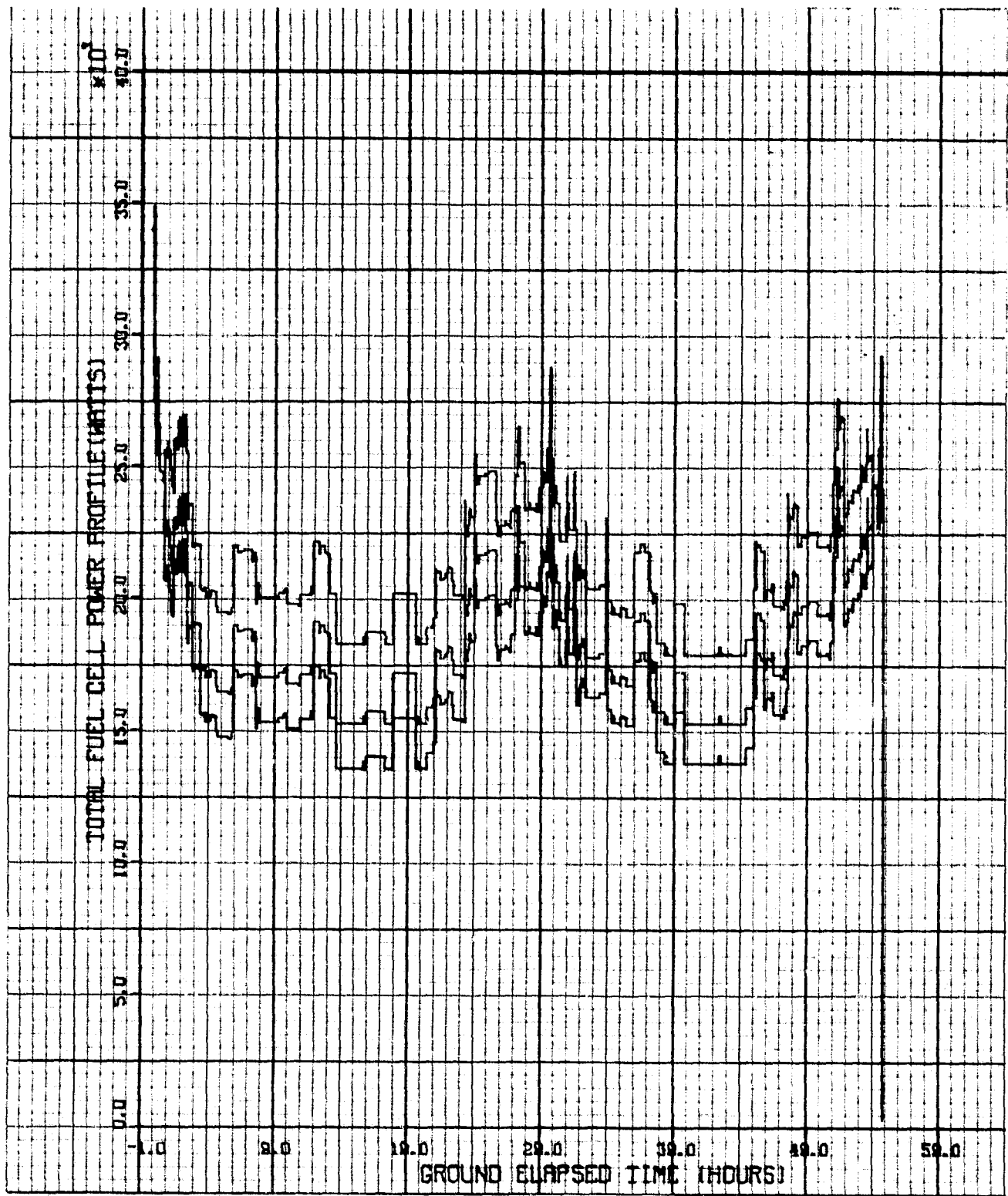


Figure 4.1-J.- Total fuel cell power profile

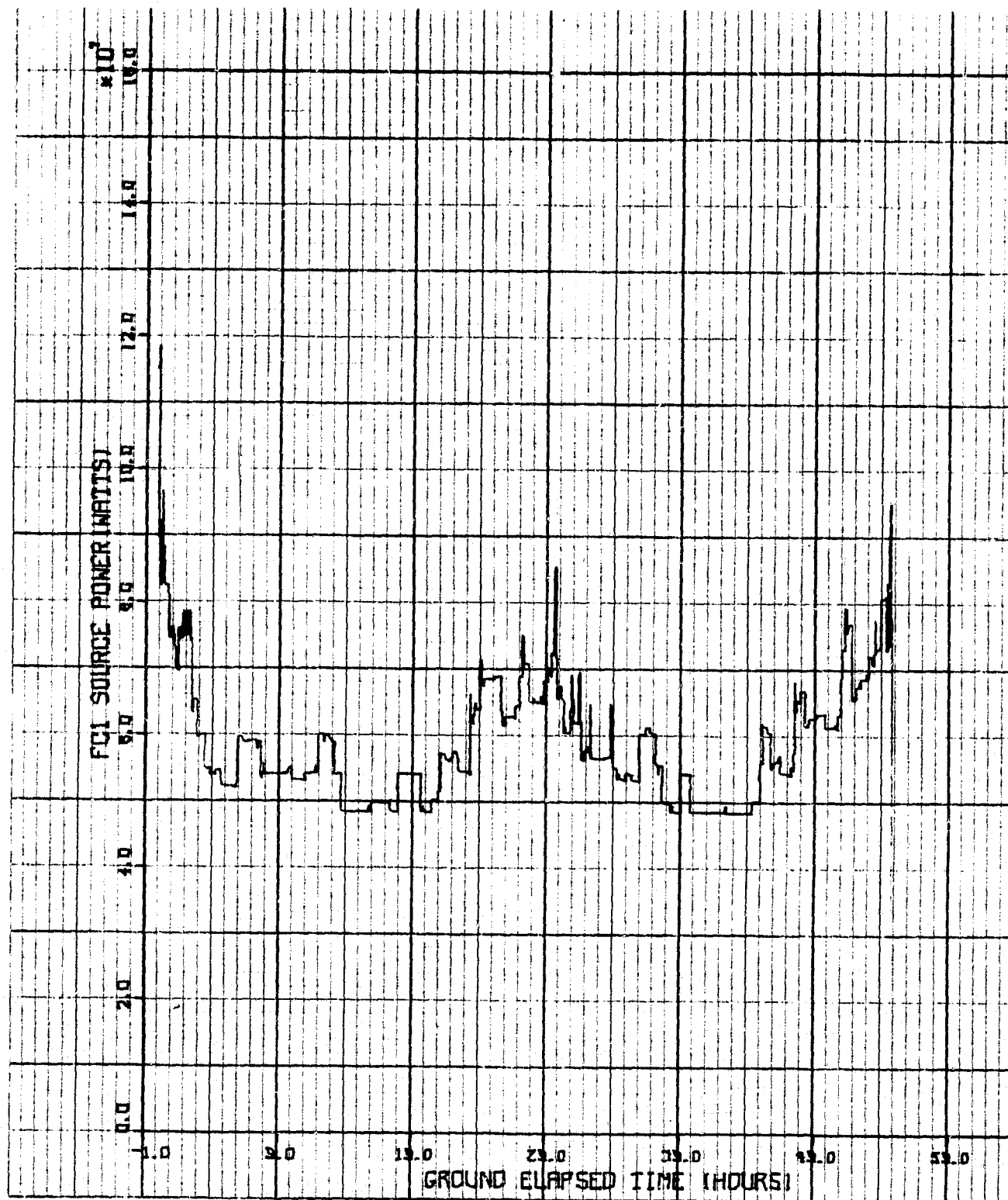


Figure 4.1-2.- Fuel cell 1 source power

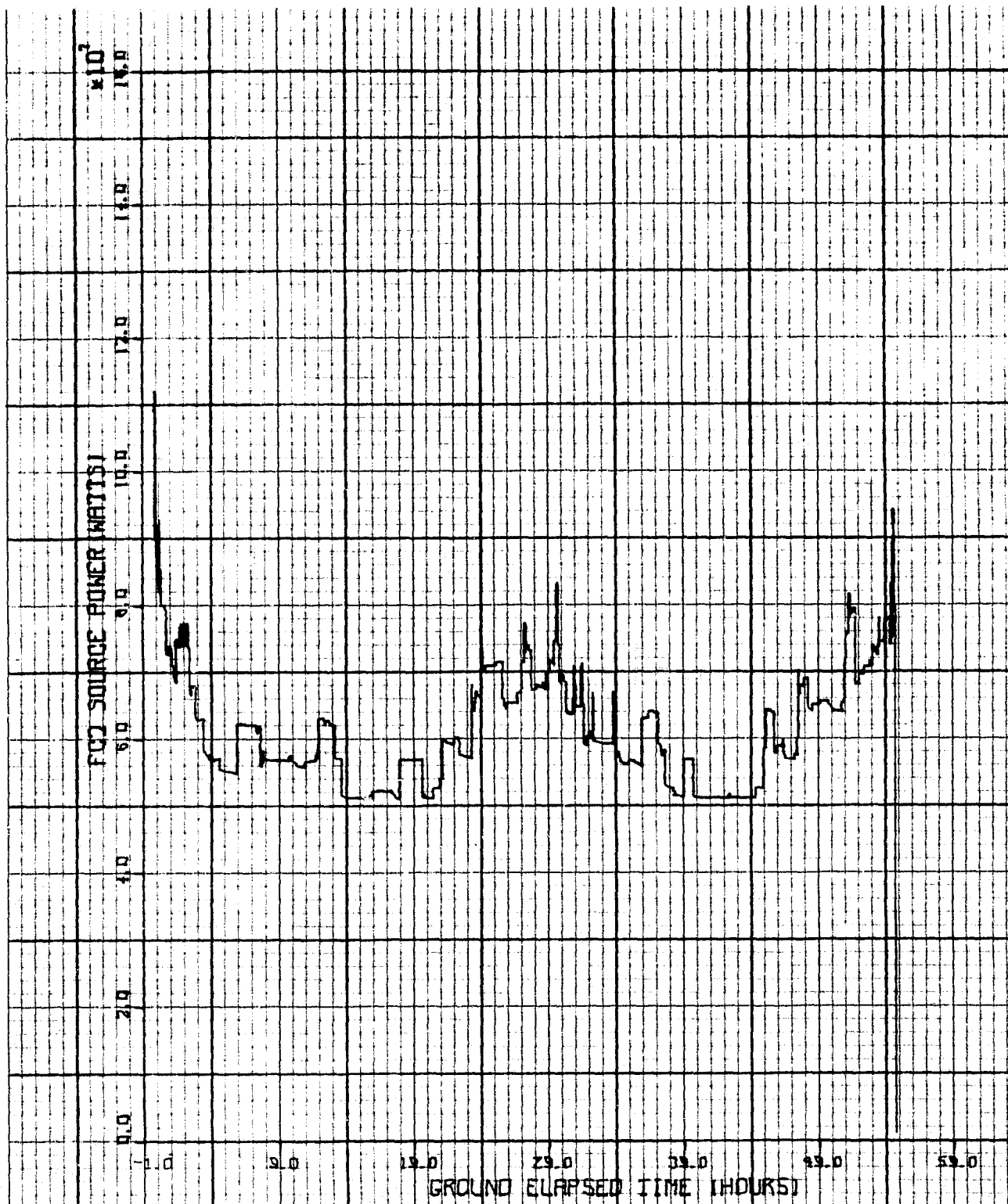


Figure 4.1-3.- Fuel cell 2 source power

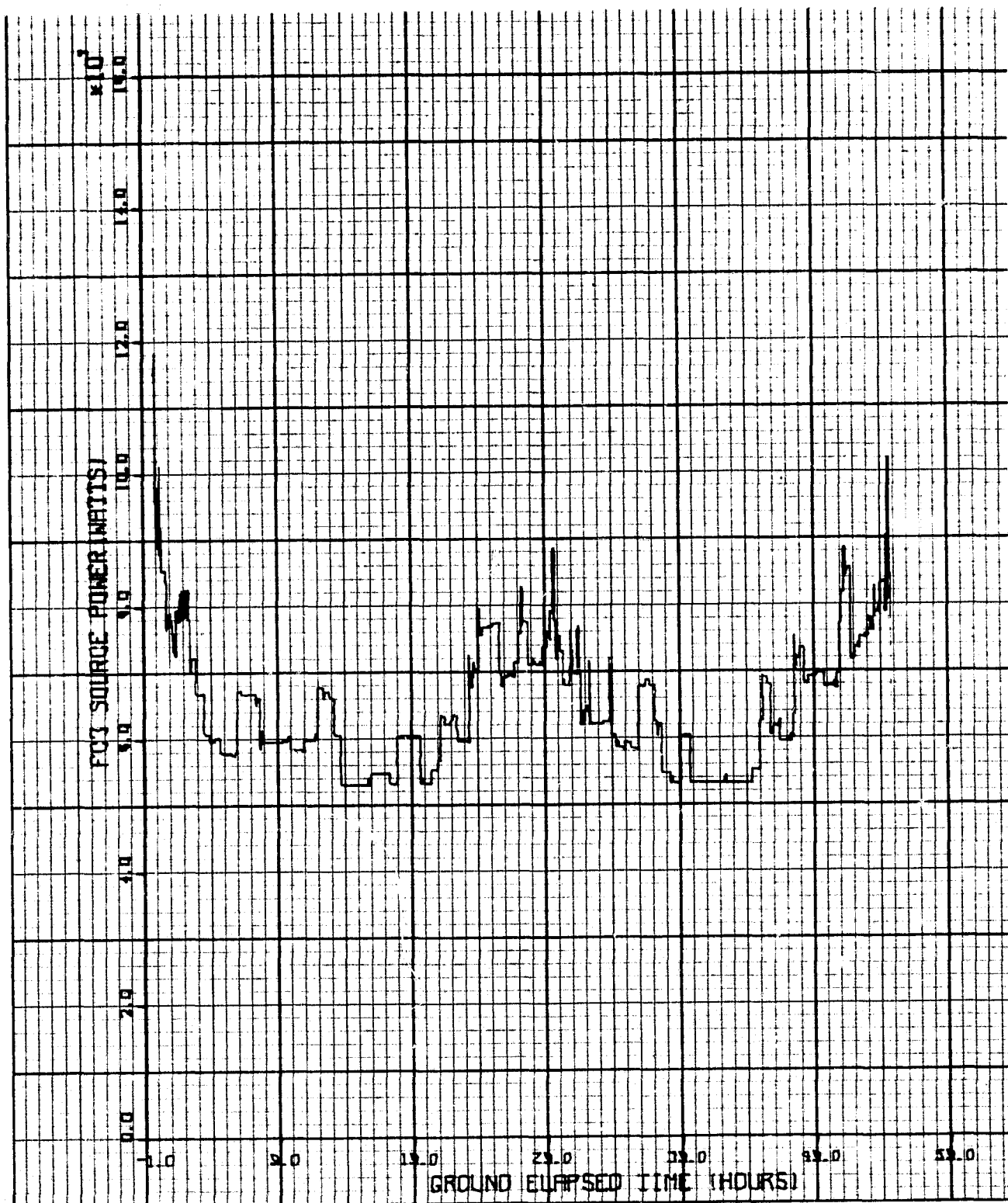


Figure 4.1-4.-Fuel cell 3 source power

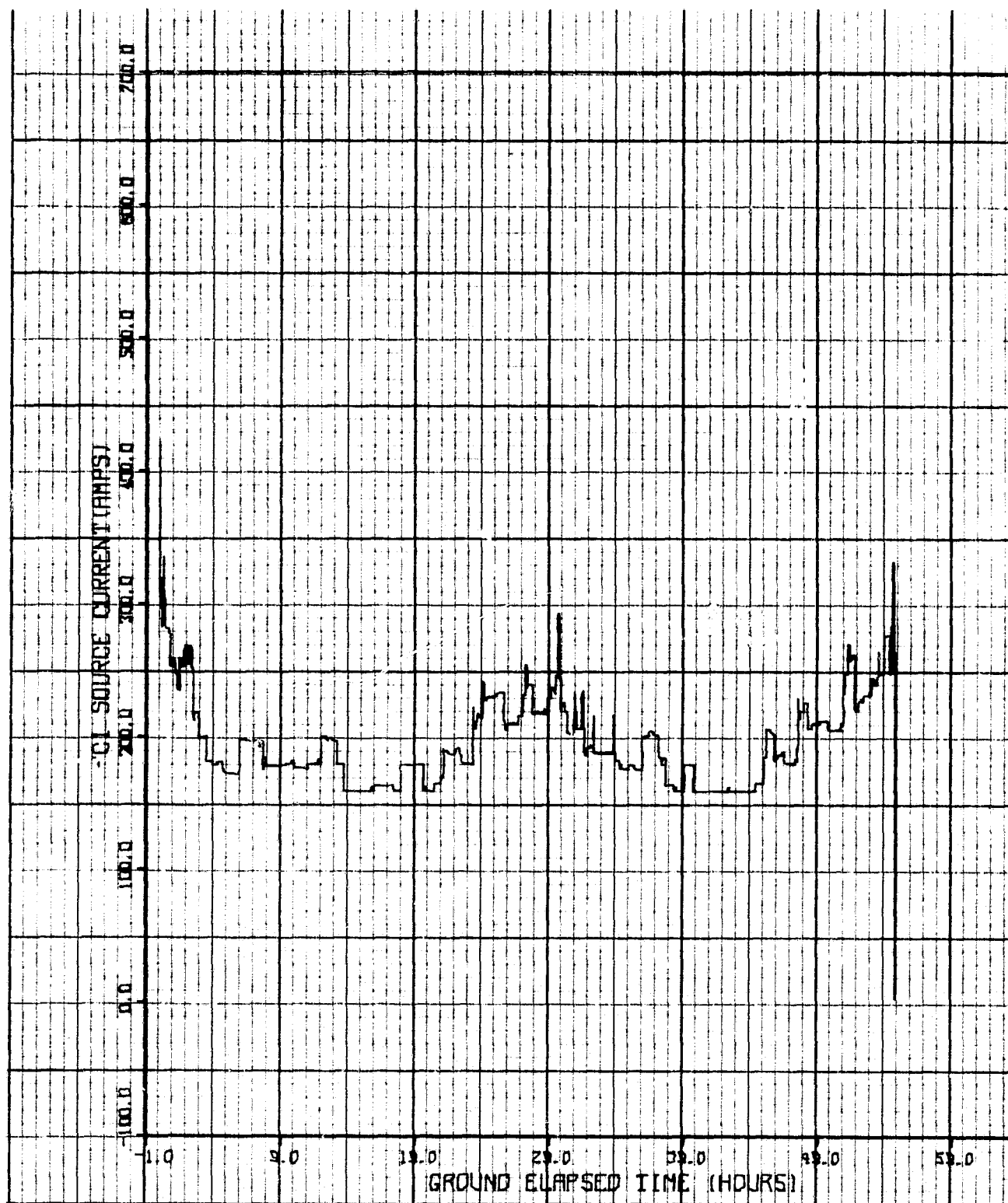


Figure 4.1-5.- Fuel cell 1 source current

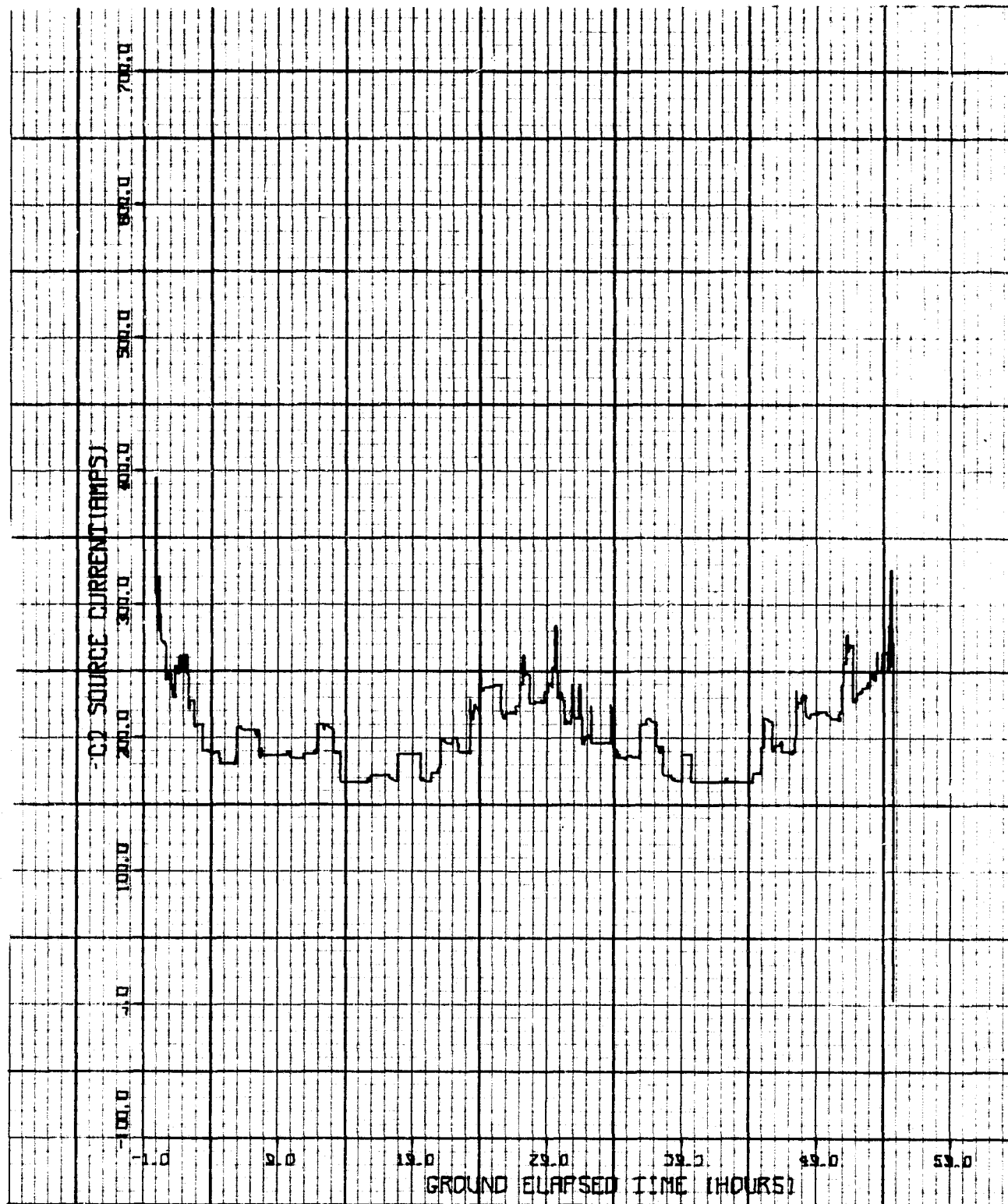


Figure 4.1-6.- Fuel cell 2 source current

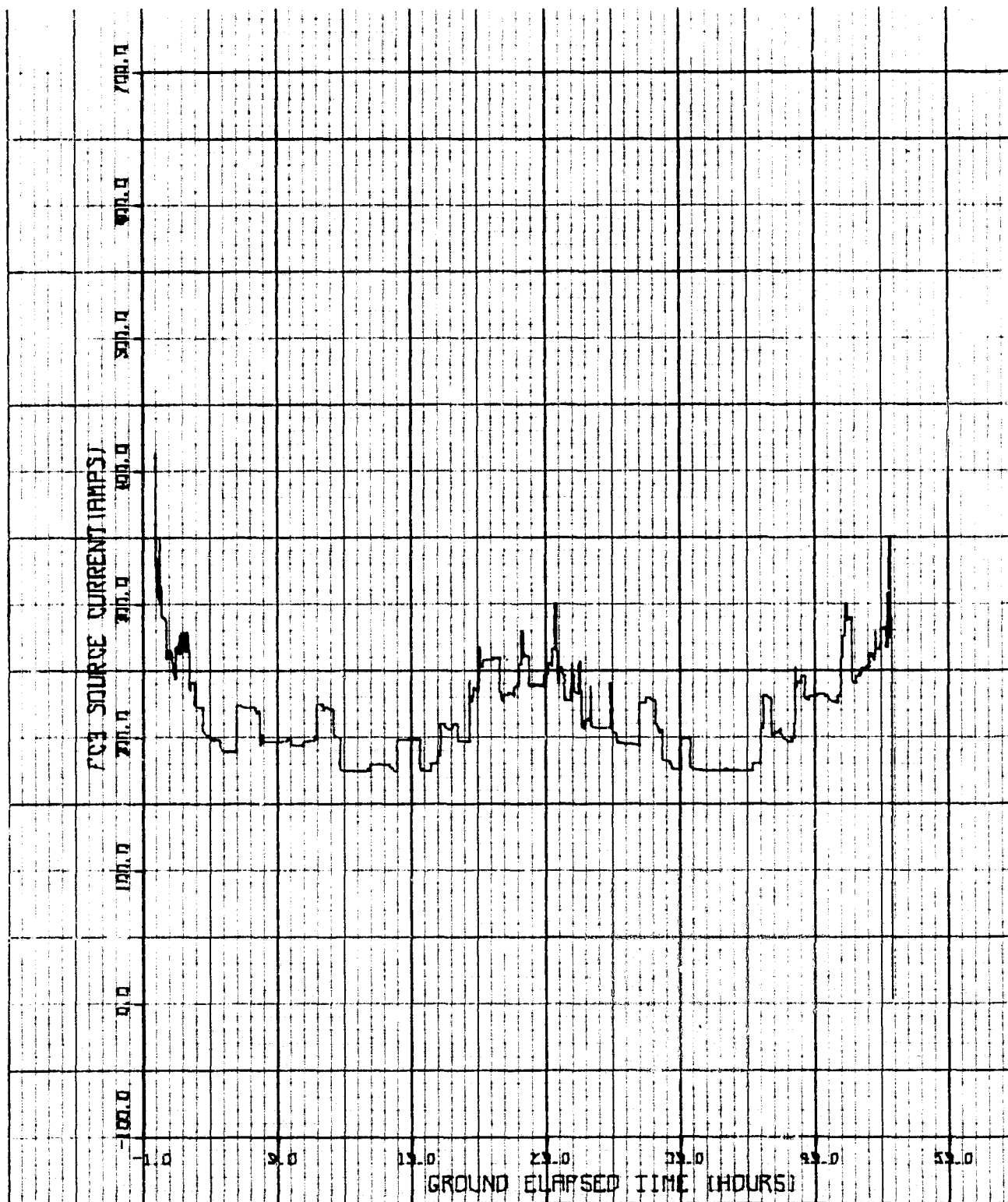


Figure 4.1-7.- Fuel cell 3 source current

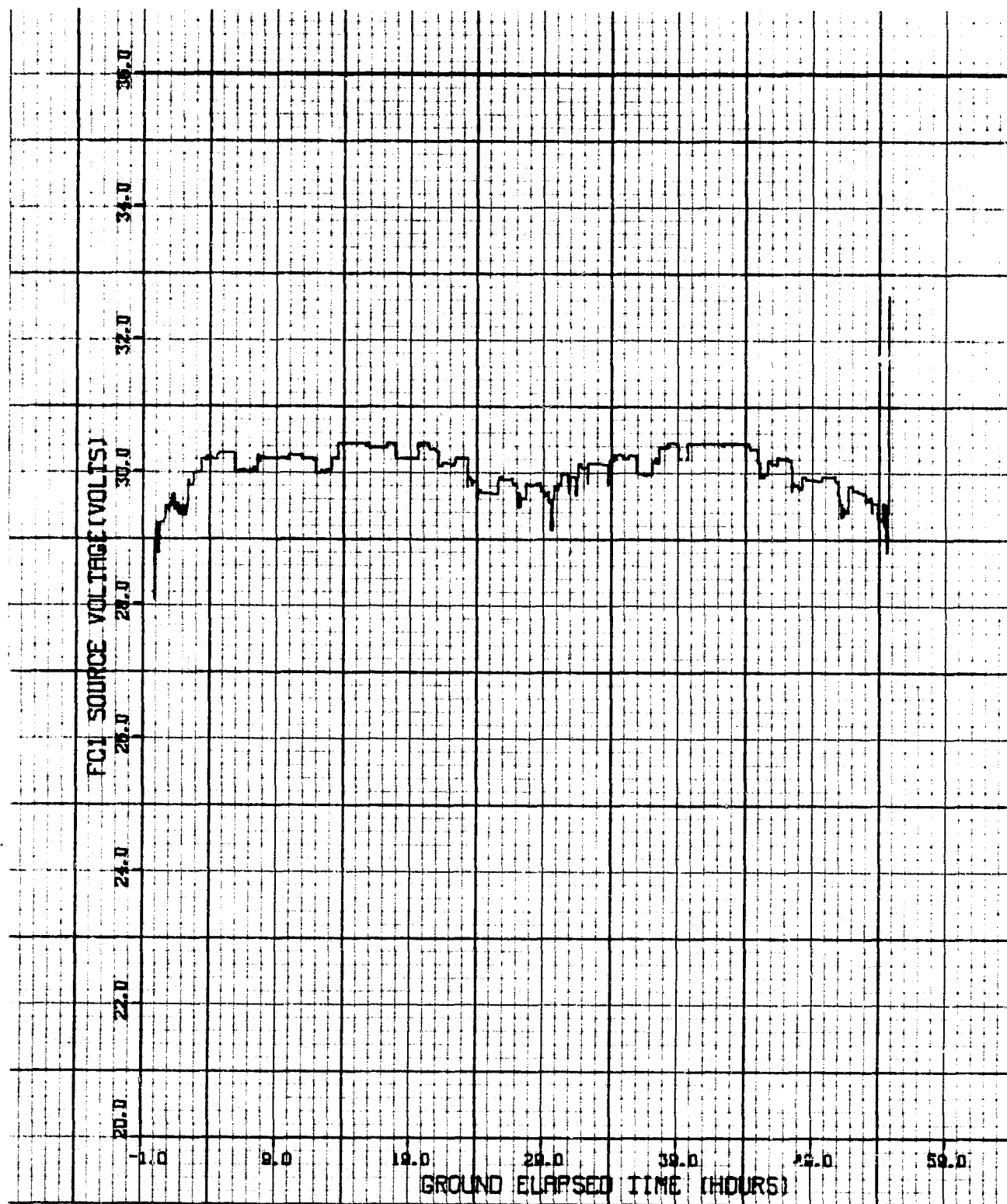


Figure 4.J-8.- Fuel cell 1 source voltage

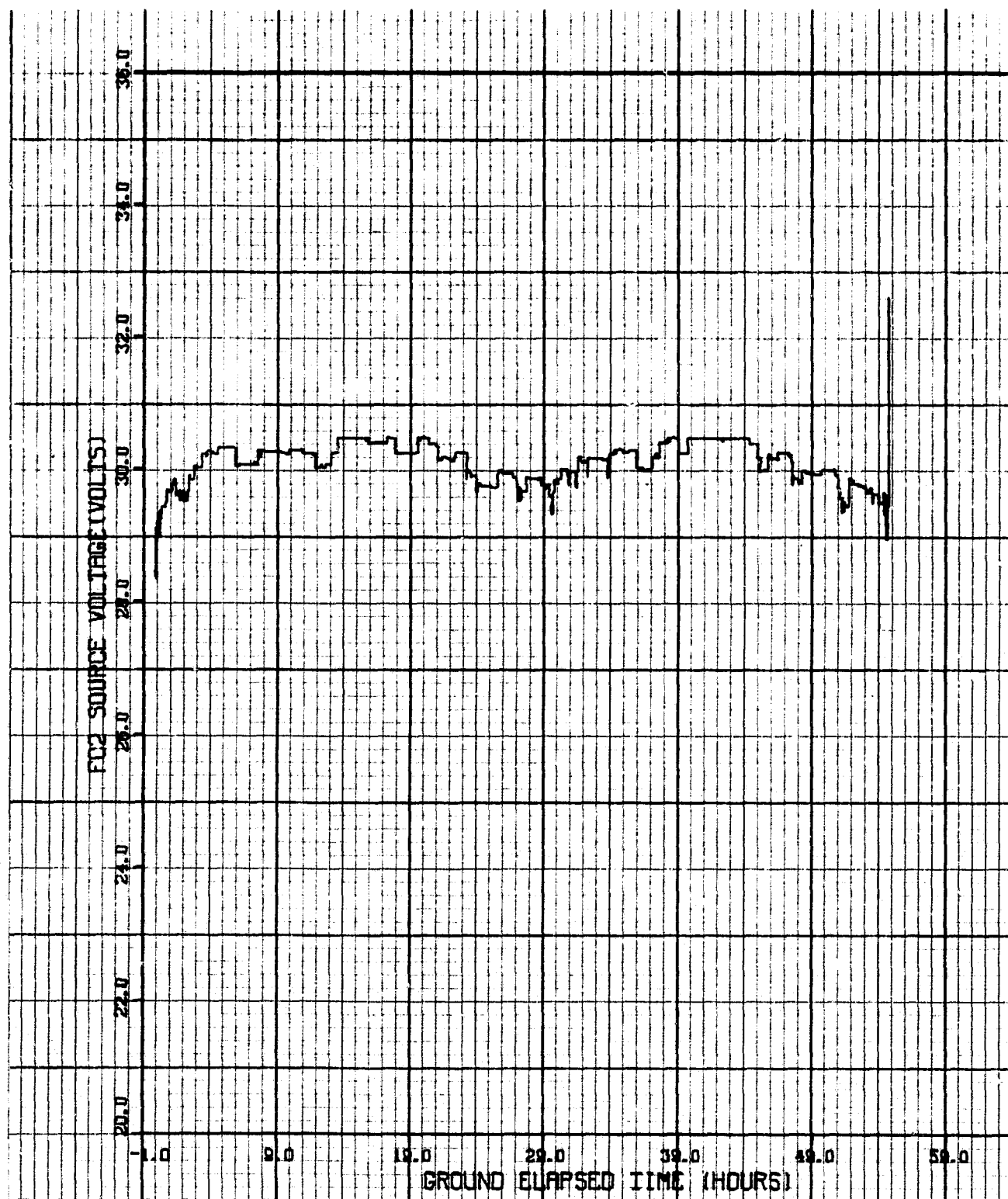


Figure 4.1-9.- Fuel cell 2 source voltage

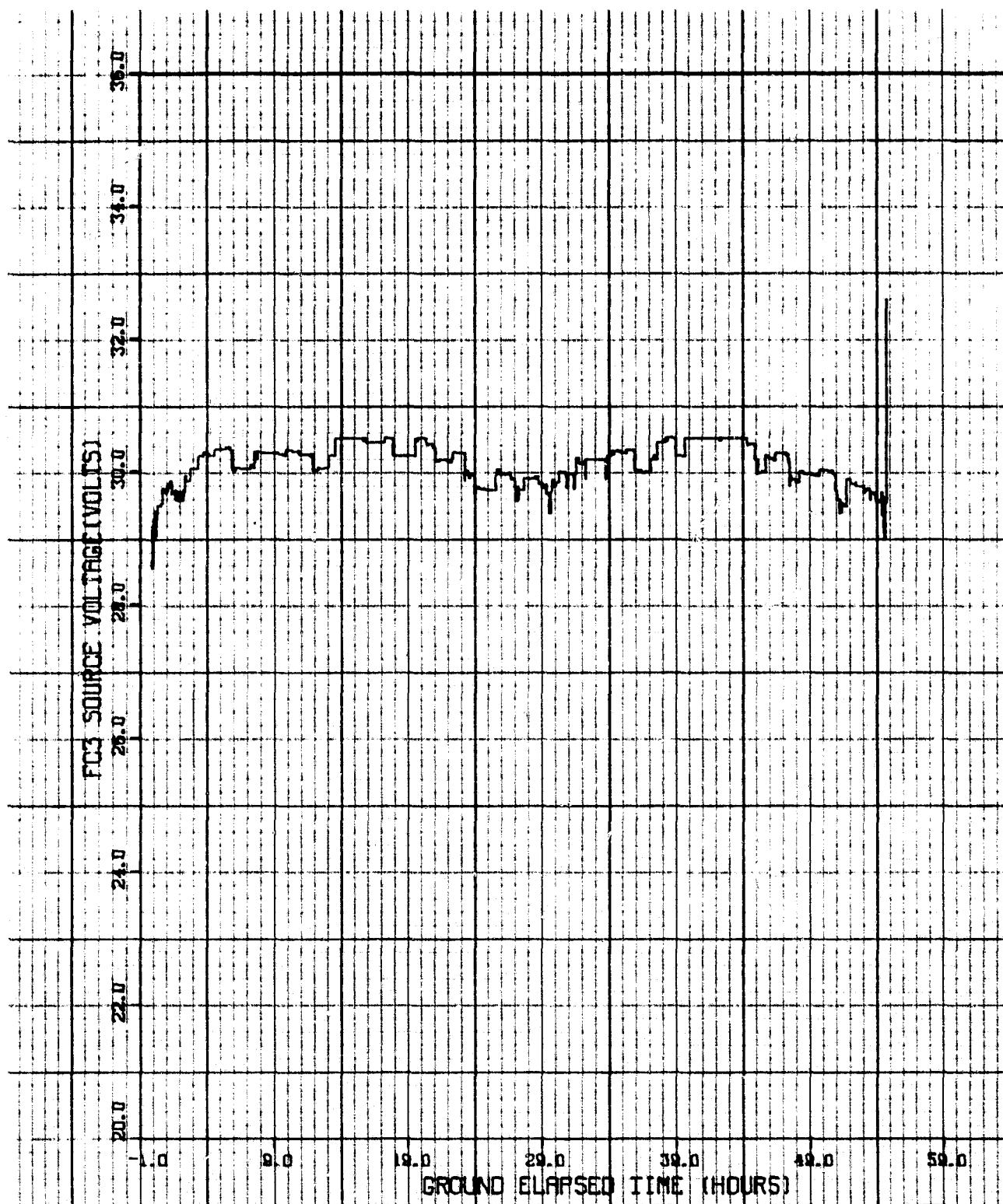


Figure 4.1-10.- Fuel cell 3 source voltage

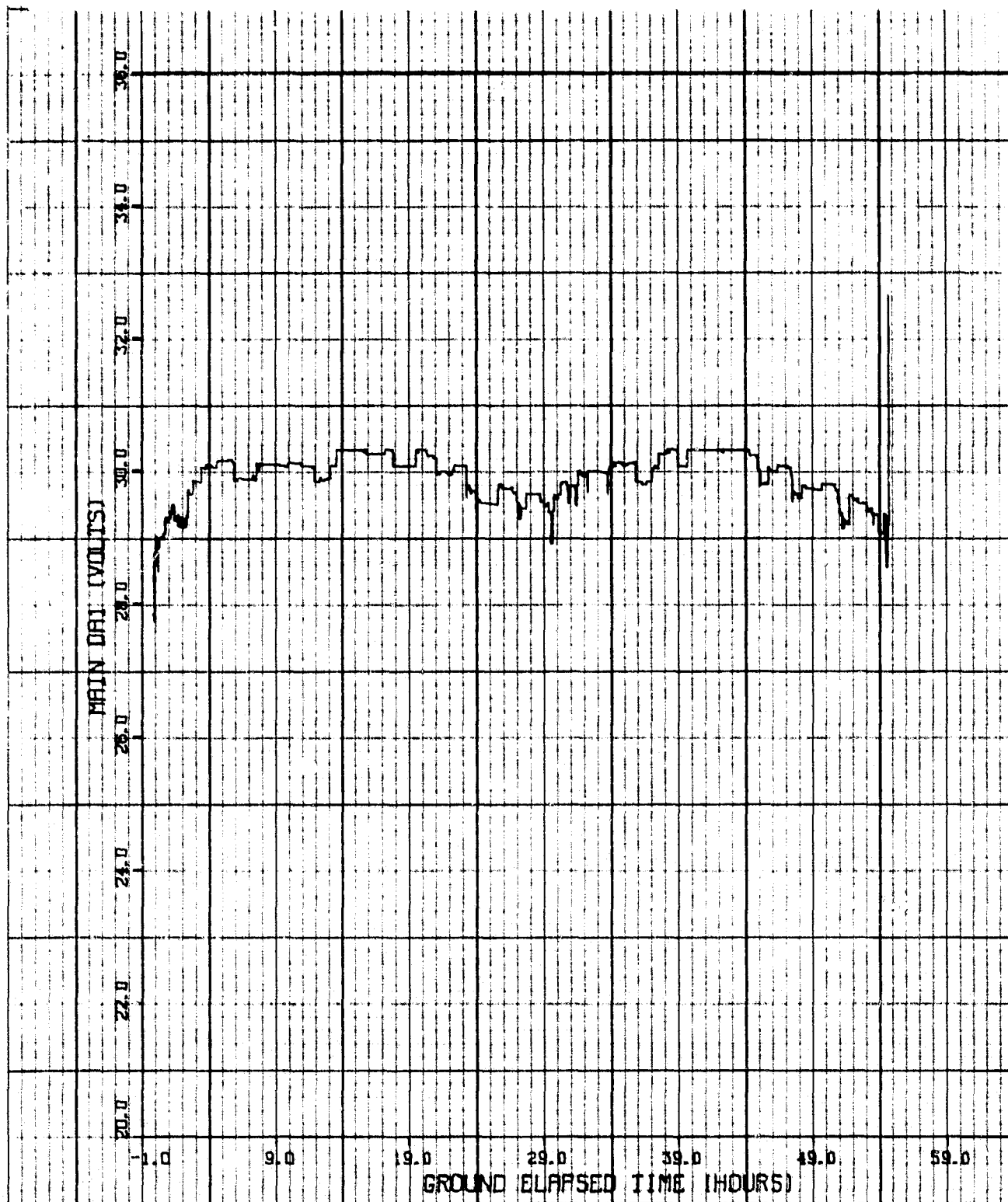


Figure 4.1-11.-Main distributor A voltage

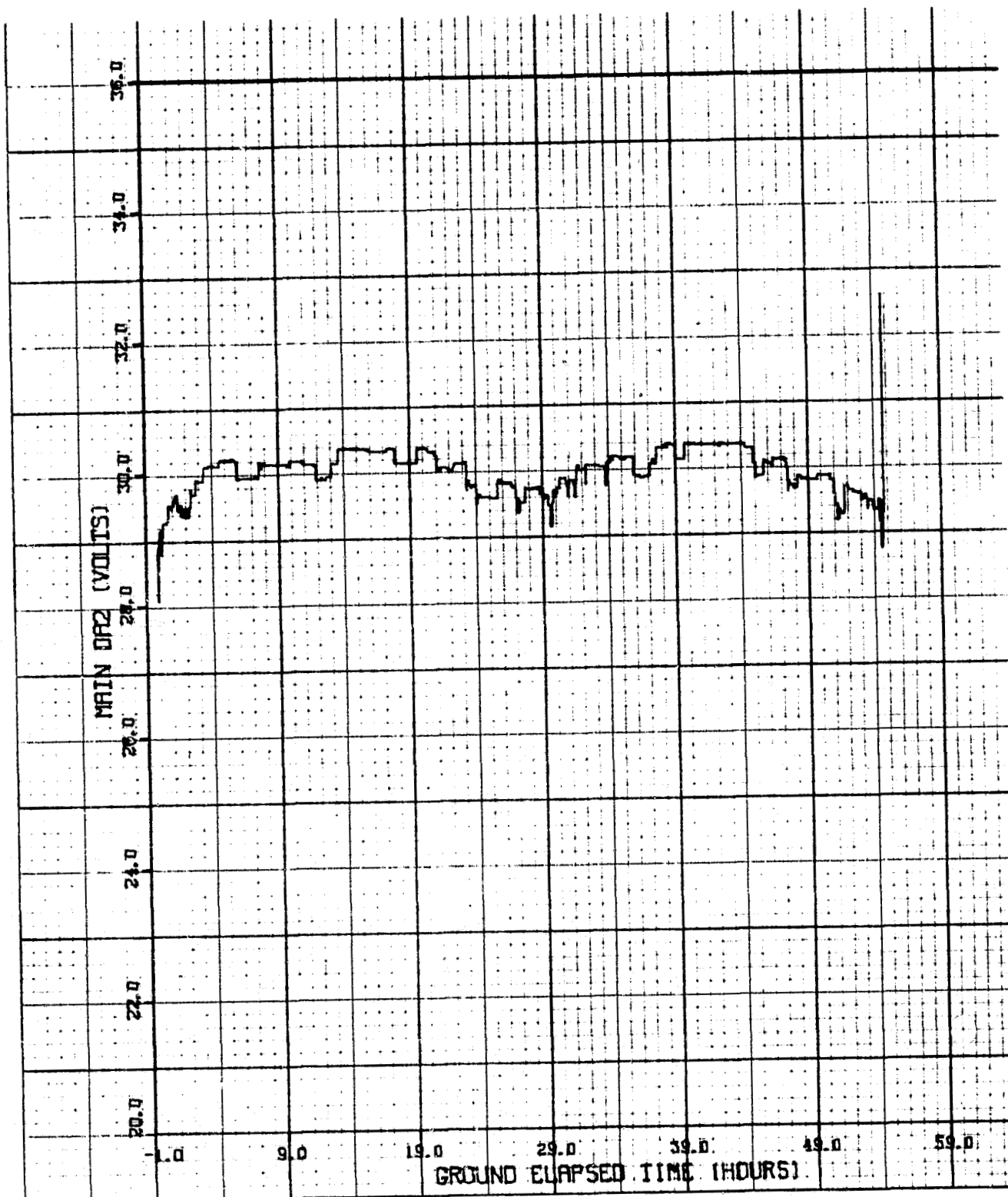


Figure 4.1-12.-Main distributor B voltage

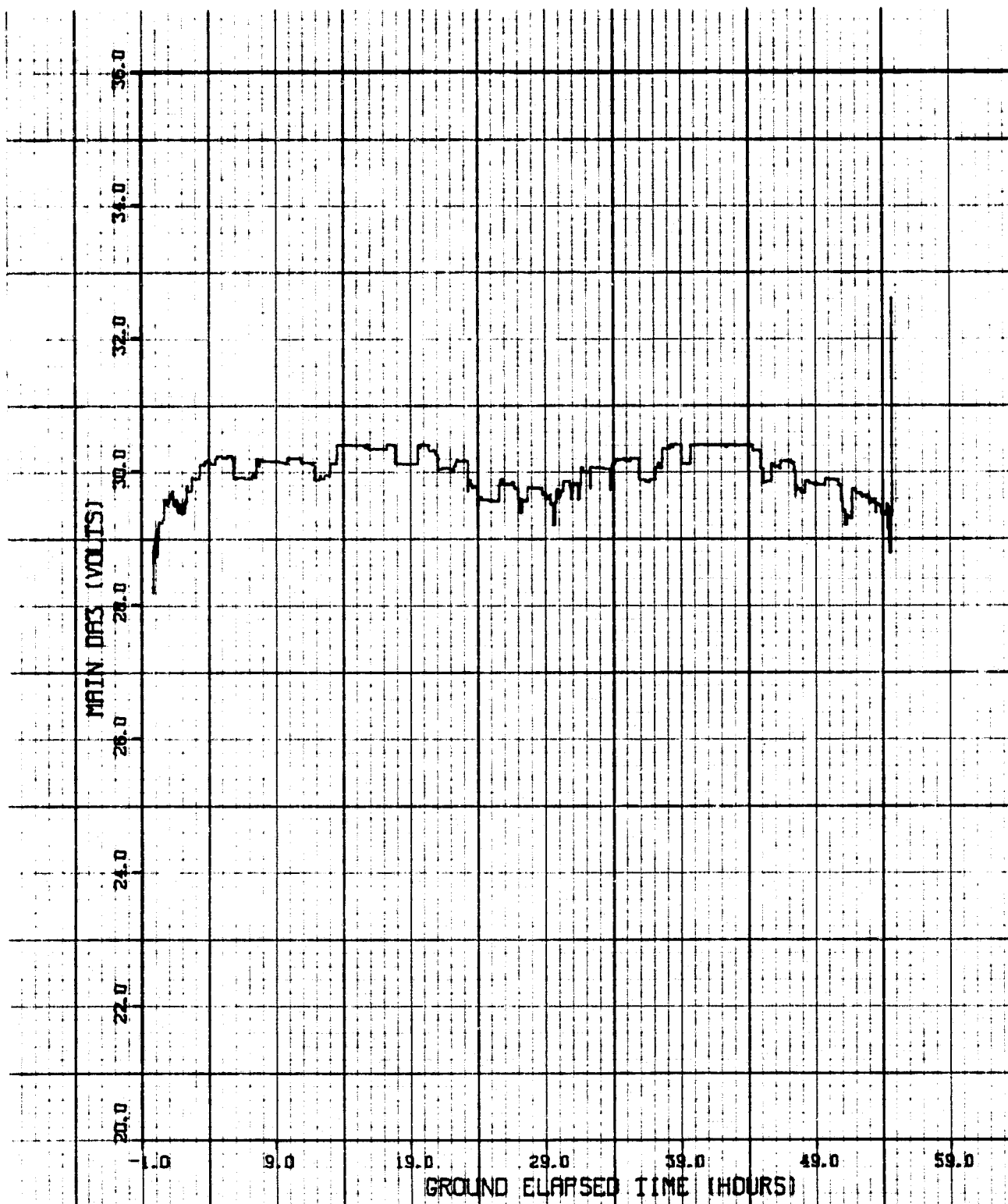


Figure 4.1-13.-Main distributor C voltage

4.1.1.1 Inverter 9 Overloads

Three times during this analysis Inverter 9 was found to be operating for thirty minutes in an overloaded condition, ranging from 100-150% of rated load. At no time was the 150% limit exceeded.

The sequence of operation, relative to the first overload, is illustrated in Figure 4.1.1.1-1. The following observations may be made from this figure:

- a. Violation of the overload time limit is triggered by activation of the OS/PS Panel Lights at 00:55:00, but is due in large part to the overload conditions which pertained during prelaunch and ascent.
- b. The overload condition is compounded by operation of the payload bay door and radiator latches and motors, and by activation of the OFT Foodwarmer at 02:35:00.
- c. The overload, which ranges between 106-131% of rated load, persists until 03:27:21, when TACAN #3 is deactivated.

The sequence of operation, relative to the second overload, is illustrated in Figure 4.1.1.1-2. The following observations may be made with reference to this figure:

- a. Violation of the overload time limit is triggered by activation of the OFT Foodwarmer at 23:40:00, but the violation is due to simultaneous operation of the foodwarmer and TACAN #3.
- b. The initial overload persists for two hours and five minutes, until the OFT Foodwarmer is deactivated at 25:45:00.
- c. With overload time being worked off, when below 100% of rated load, at one-third the rate of accumulation, the accrued overload time is not negated until some time after the OMS/RCS valves are operated at 33:50:00.

Figure 4.1.1.1-3 illustrates the third overload, and indicates the following:

- a. Violation of the overload limit is triggered by activation of the OFT Foodwarmer at 47:40:00, but the violation is due, once again, to simultaneous operation of the foodwarmer and TACAN #3.
- b. The initial overload is sustained for two hours and five minutes, before the foodwarmer is deactivated.
- c. With overload time being worked off at one-third the rate of accumulation, the accrued overload time is not negated prior to EOM.

4.1.1.2 MD1 to MPC1 Current Overloads

The current overload limit, of 100 amps, between MD1 and MPC1 was exceeded at 29:40:00. The current continued to exceed this limit from 29:40:00 to 29:50:00, ranging between 100.21 and 100.39 amps.

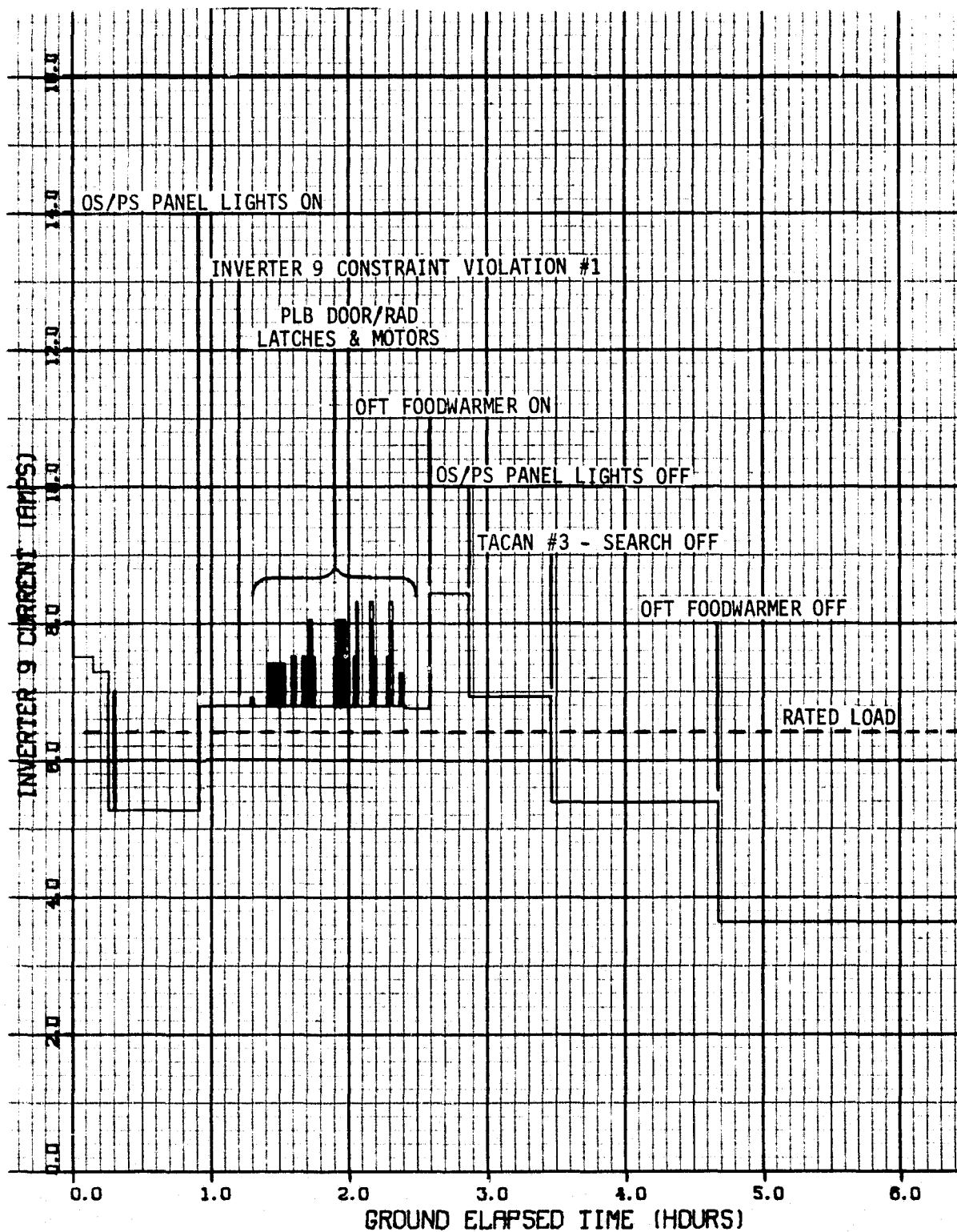


Figure 4.1.1.1-1. - Inverter 9 current (liftoff - 6 hrs)

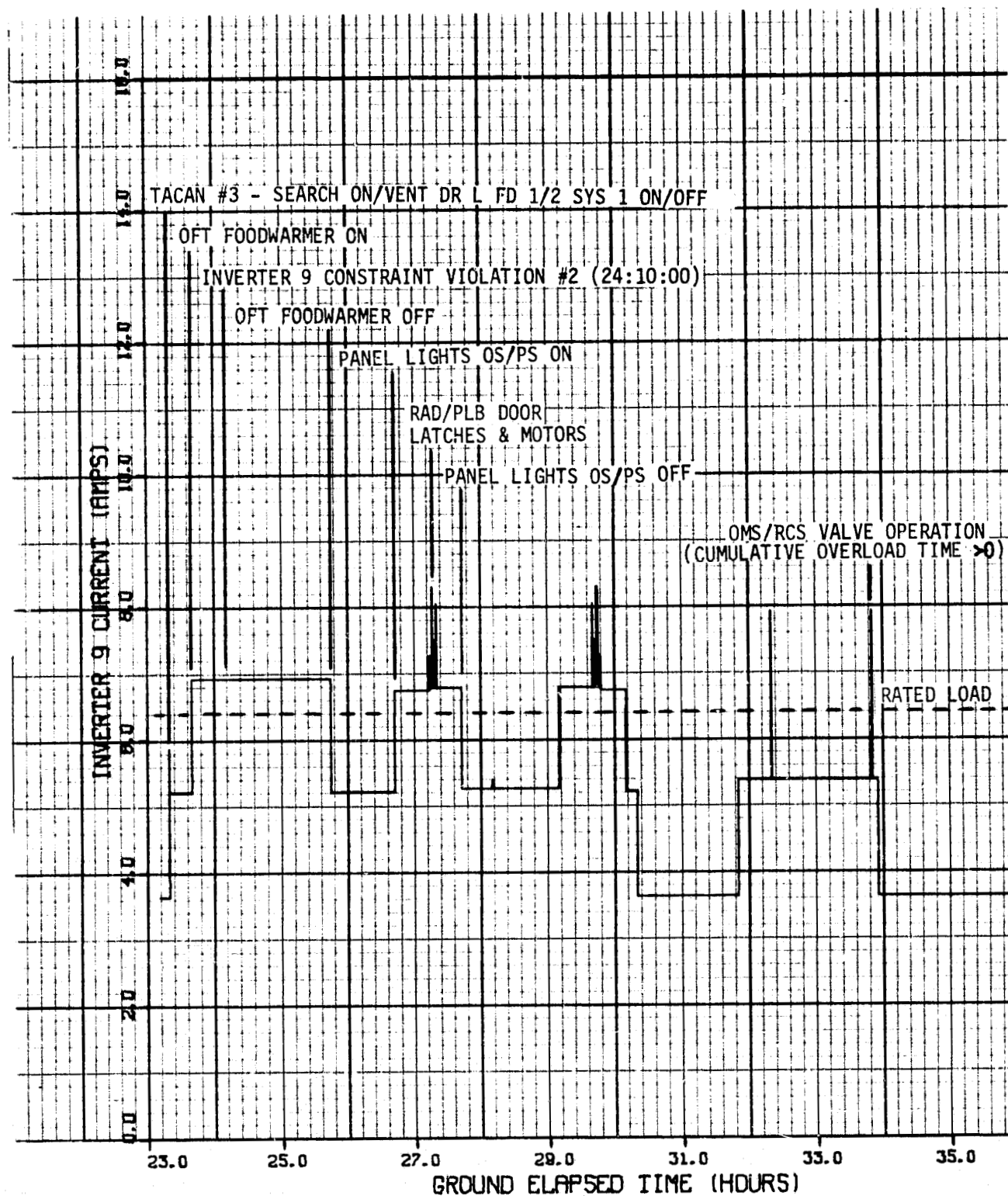


Figure 4.1.1.1-2. - Inverter 9 current (23.0 - 35.0 hrs)

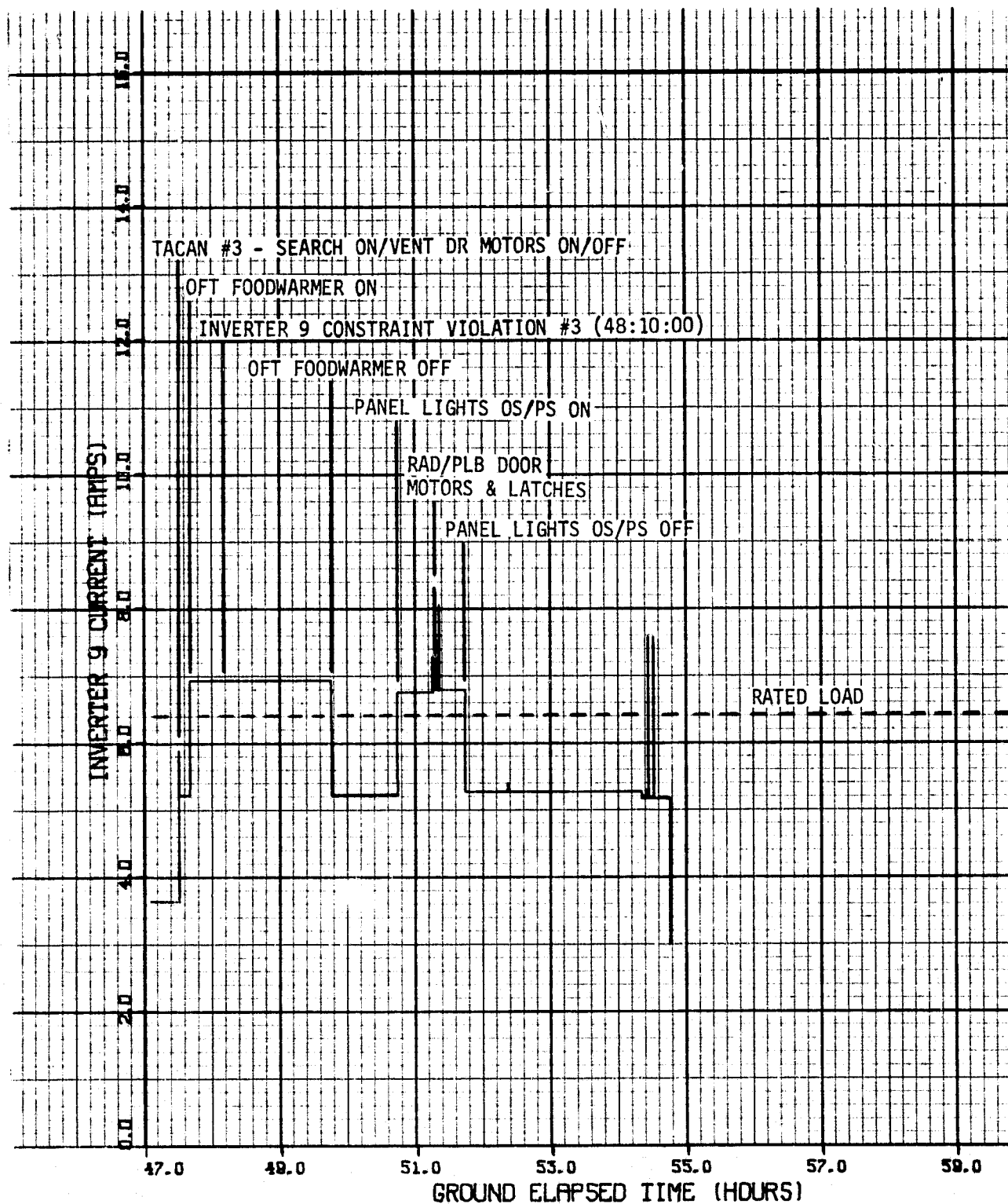


Figure 4.1.1.1-3. - Inverter 9 current (47.0 hrs - EOM)

The MPC1 powered electrical equipment which is active, in the analysis, at 29:40:00 is shown in Table 4.1.1.2-I. The following observations may be made from this data:

- a. The overload limit is triggered by activation of Flash Evaporator System (FES) heaters, but is the result of the simultaneous operation of various Guidance, Navigation, and Control (GNC); Display and Control (D&C); Development Flight Instrumentation (DFI); Power Generation; EPDC; and ECLSS equipment.
- b. The total connected load, active at 29:40:00, is approximately 3989 watts. Of this total, 591 watts is scaled down to 272 watts, by means of usage factors, to represent cyclic, or periodic, operations which are averaged over time. The load which is active in the analysis, then, is approximately 3670 watts, of which 2763 watts is supplied only from MPC1, while the remainder, 907 watts, is shared with MPC2 or MPC3.

4.1.2 Parameter Excursions by Mission Phase

Program MAXMIN was run to determine how close parameters which failed to violate their analysis limits, came to those limits during prelaunch, ascent, onorbit, and entry phases of the mission. The results are tabulated in Tables 4.1.2-I and 4.1.2-II, for information. A review of these tables indicates that no EPDC subsystem constraint limits were seriously threatened during this analysis, other than those discussed in section 4.1.1.2.

4.1.2.1 Comparison with Launch Commit Criteria

The output of program MAXMIN was also used to compare SEPS EPDC subsystem parameter excursions with the corresponding Shuttle Launch Commit Criteria (ref. 10). The comparison was made for the period between L/O-04:56 and L/O-00:07.25, based upon analysis time. The results are shown in Table 4.1.2.1-I. A review of this table indicates that, based upon this analysis, some existing EPDC subsystem launch commit criteria may be violated during the terminal countdown.

No attempt was made to compare analysis FCP operation with the corresponding redlines, since the steady-state FCP characteristics used in the analysis are known to be within these limits, see Table 3.1-I.

4.2 UNCERTAINTIES

The following major uncertainties should be considered when interpreting the results of this analysis:

- a. Fuel cell degradation due to accumulated operating time during the STS-1 flight and degradation between purges were not considered in this analysis. In addition, fuel cell transient characteristics were not modeled. Source voltages, and consequently EPDC bus voltages,

TABLE 4.1.1.2-I.- MPC1 COMPONENTS ACTIVE AT 29:40:00

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)			USAGE FACTOR ¹ (%)
		MPC1 ONLY	SHARED	LOADS	
			MPC2	MPC3	
011304	RGA #4 Opr			24.96	
034801	PLB Fldlt Elec Assy 1		190.52		75.0
034901	PLB Fldlt Fwd Port EA1	146.24			
034906	PLB Fldlt Aft Stbd EA1	146.24			
050201	Pwr Dist Assy #1 Mid		9.73		
050202	Pwr Dist Assy #2 Mid		9.73		
050203	Pwr Dist Assy #3 Mid		9.73		
050501	DSC Unit #1 - SDL1		16.60		
050502	DSC Unit #2 - SDL2		24.70		
050503	DSC Unit #3 - SDL3		16.60		
050504	DSC Unit #4 - SDL4		24.70		
050505	DSC Unit #5 - SDL5		46.70		
050506	DSC Unit #1 - SDR1		16.60		
050507	DSC Unit #2 - SDR2		24.70		
050508	DSC Unit #3 - SDR3		16.60		
050509	DSC Unit #4 - SDR4		46.80		
050601	DSC Unit #1 - SDC1		16.60		
050602	DSC Unit #2 - SDC2		23.90		
050603	DSC Unit #3 - SDC3		16.60		
050604	DSC Unit #4 - SDC4		17.70		
050605	DSC Unit #5 - SDC5		16.60		
050801	Wdbnd FDM Un1 - Mid L1	24.68			
050803	Wdbnd FDM Un2 - Mid L1	24.68			
050805	Wdbnd FDM Un1 - Mid R2	24.68			
050807	Wdbnd FDM Un2 - Mid R2	24.68			
050812	Wdbnd FDM Un1 - Mid L3	24.68			
050820	Freon Flomtr - Mid Lt3	1.99			
050833	Load Sen Accel - MR 2	13.95			
051112	WBSC LM1 (A135) - WBM	3.45			
051122	WBSC LM1 (A136) - WBM	3.85			
051132	WBSC LM1 (A137) - WBM	4.54			
051142	WBSC LM1 (A138) - WBM	5.23			
051212	WBSC RM2 (A139) - WBM	3.16			
051222	WBSC RM2 (A141) - WBM	2.76			
051232	WBSC RM2 (A141) - WBM	4.54			
051242	WBSC RM2 (A142) - WBM	5.53			
051322	WBSC RM2 (A144) - WBM	6.91			
051332	WBSC LM3 (A145) - 100%	2.79			
051401	DC-DC Xducers - Fwd	15.99			
051403	DC-DC Xducers - Fwd	6.12			
051404	DC-DC Xducers - Mid L1	30.20			
051405	DC-DC Xducers - Mid L1	8.09			
051407	DC-DC Xducers - Mid R2	28.43			
051408	DC-DC Xducers - Mid R2	1.97			
051411	DC-DC Xducers - Mid L3	0.79			
051412	DC-DC Xducers - Mid L3	39.09			

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TABLE 4.1.1.2-I.- MPC1 COMPONENTS ACTIVE AT 29:40:00 - Concluded

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)			USAGE FACTOR ¹ (%)
		MPC1 ONLY	SHARED LOADS MPC2	MPC3	
051611	SGSC ML1 (A162) - 100%	92.46			
051612	SGSC ML1 (A162) - WBM	15.20			
051621	SGSC ML1 (A163) - 100%	65.26			
051623	SGSC ML1 (A163) - WBM	7.60			
051625	SGSC ML1 (A163) - 100%	30.69			
051653	SGSC MR2 (A169) - WBM	22.80			
051662	SGSC ML3 (A166) - WBM	30.40			
051672	SGSC ML3 (A167) - WBM	45.60			
051801	MDM DL1 - Mid Left 1		50.00		
051802	MDM DL2 - Mid Left 1		50.20		
051803	MDM DR1 - Mid Right 2		50.00		
051804	MDM DR2 - Mid Right 2		52.80		
051805	MDM DC1 - Mid Left 3		49.10		
051806	MDM DC2 - Mid Left 3		52.50		
062201	Mtr Cntl Assy Mid #1		11.98		22.8
062203	Mtr Cntl Assy Mid #3		20.20		20.2
062701	PCA Mid #1	40.46			35.3
300201	FCP #1 O2 Flowmeter	6.18			
300301	FCP #1 H2 Flowmeter	6.18			
305301	H2O Vent Ln Htr A	0.44			5.0
305401	FCP1 H2O Rlf Vlv Htr A	0.17			5.1
305403	FCP2 H2O Rlf Vlv Htr A	0.17			5.1
305405	FCP3 H2O Rlf Vlv Htr A	0.17			5.1
408105	Pri Fwtr Ln Htr A - TS7	7.75			15.2
408501 ²	Hi Ld Duct Htr 1 Sec 1	553.60			
408601 ²	Hi Ld Duct Htr 1 Sec 2	254.60			
408701 ²	Hi Ld Duct Noz Ht Gp 1	130.70			
409001 ²	Topping Duct Htr 1 Sec 1	378.90			
409101 ²	Topping Duct Htr 1 Sec 2	468.60			
Total Power:		2763.19	881.89	24.96	

¹ Usage Factor = 100% unless otherwise noted

² Activated at 29:40:00

TABLE 4.1.2-I VOLTAGE CONSTRAINT/LOW VOLTAGE
COMPARISON BY MISSION PHASE

Constraints		Minimum Voltage (VDC)			
Description	Limit (VDC)	Prelaunch ¹	Ascent	On-orbit	Entry
MD1	27.0	28.3	28.5	28.9	28.6
MD2	27.0	28.6	28.8	29.1	28.7
MD3	27.0	28.6	28.7	29.2	28.8
Panel 014	25.5	28.1	28.2	28.6	28.2
Panel 015	25.5	28.1	28.3	28.7	28.2
Panel 016	25.5	28.2	28.4	28.8	28.4
FPC 1	26.2	27.4	27.6	28.2	27.7
FPC 2	26.2	27.4	27.6	28.2	27.7
FPC 3	26.2	27.4	27.6	28.2	27.7
FLC 1	26.2	27.4	27.6	28.2	27.7
FLC 2	26.2	27.4	27.6	28.2	27.7
FLC 3	26.2	27.4	27.6	28.2	27.7
MPC 1	27.0	28.2	28.3	28.7	28.5
MPC 2	27.0	28.5	28.7	29.0	28.6
MPC 3	27.0	28.6	28.7	29.2	28.8
APC 1	26.1	27.6	27.8	28.5	27.6
APC 2	26.1	27.6	27.8	28.5	27.5
APC 3	26.1	27.6	27.8	28.5	27.2
APC 4	26.1	27.6	27.8	28.6	27.6
APC 5	26.1	27.6	27.8	28.6	27.5
APC 6	26.1	27.6	27.8	28.6	27.2
ALC 1	26.1	27.6	27.8	28.5	27.5
ALC 2	26.1	27.6	27.8	28.5	27.5
ALC 3	26.1	27.6	27.8	28.5	27.2
ESS BUS 1 BC	25.25	27.3	27.4	27.9	27.5
ESS Bus 2 CA	25.25	27.2	27.4	27.9	27.4
ESS Bus 3 AB	25.25	27.3	27.4	27.8	27.4
SRB Bus A/C-Left	26.15	27.0	27.2	N/A	N/A
SRB Bus A/C-Right	26.15	27.0	27.2	N/A	N/A
SRB Bus B/C-Left	26.15	27.0	27.2	N/A	N/A
SRB Bus B/C-Right	26.15	27.0	27.2	N/A	N/A
SRB Bus C-Left	25.6	26.3	26.5	N/A	N/A
SRB Bus C-Right	25.6	26.3	26.5	N/A	N/A
P/L Main Bus at X ₀ = 645	27.0	28.8	28.9	29.2	28.8
P/L Aft Body B at X ₀ = 1307	25.5	N/A ²	N/A ²	N/A ²	N/A ²
P/L Aft Body C at X ₀ = 1307	25.5	N/A ²	N/A ²	N/A ²	N/A ²
P/L Aux Bus A	26.2	N/A ²	N/A ²	N/A ²	N/A ²
P/L Aux Bus B	26.2	N/A ²	N/A ²	N/A ²	N/A ²
P/L Aux Bus A at X ₀ = 645	26.2	N/A ²	N/A ²	N/A ²	N/A ²
P/L Aux Bus B at X ₀ = 645	26.2	N/A ²	N/A ²	N/A ²	N/A ²
P/L Bus MS/PS/OOS	24.2	27.2	27.3	27.7	27.4

¹ Internal Power

² Not applicable to this analysis, see Figure 3.1-1

TABLE 4.1.2-II CURRENT CONSTRAINT/MAXIMUM
CURRENT COMPARISON BY MISSION PHASE

Constraints		Maximum Current (Amps)			
Description	Limit (Amps)	Prelaunch ¹	Ascent	On-orbit	Entry
FCP 1	545.0	354.1	336.0	293.8	331.6
FCP 2	545.0	338.6	321.3	284.4	326.8
FCP 3	545.0	361.1	349.0	301.9	351.8
MD1 to MPC1	100.0	74.2	94.1	100.4	89.5
MD2 to MPC2	100.0	56.3	57.2	73.7	56.5
MD3 to MPC3	100.0	17.5	17.2	21.3	16.4
MD1 to Panel 014	70.0	14.8	17.8	19.8	19.7
MD2 to Panel 015	70.0	23.7	23.9	22.2	24.8
MD3 to Panel 016	70.0	19.5	19.4	21.3	21.7
MD1 to APC4	300.0	100.0	107.8	86.4	130.0
MD2 to APC5	300.0	86.6	82.1	65.4	105.0
MD3 to APC6	300.0	53.9	51.2	43.7	85.6
MD1 to FPC1	450.0	160.4	164.3	149.9	184.6
MD2 to FPC2	450.0	167.9	158.2	135.2	170.4
MD3 to FPC3	300.0	244.5	225.2	208.8	246.1
FPC1 to FLC1	35.0	0.8	0.9	0.9	0.9
FPC2 to FLC2	35.0	4.9	6.1	3.4	2.5
FPC3 to FLC3	35.0	5.1	5.2	4.9	4.8
APC4 to APC1	150.0	36.9	42.1	33.7	33.7
APC5 to APC2	150.0	32.2	40.2	26.9	27.0
APC6 to APC3	150.0	18.7	20.9	17.3	17.3
APC4 to ALC1	100.0	30.0	19.8	22.3	24.6
APC5 to ALC2	100.0	23.8	16.6	14.0	14.0
APC6 to ALC3	100.0	21.4	15.6	15.8	18.0
FCP3 to P/L	441.2	N/A ²	N/A ²	N/A ²	N/A ²
Main Bus					
APC2 to P/L B	80.0	N/A ²	N/A ²	N/A ²	N/A ²
Aft Body					
APC3 to P/L C	80.0	N/A ²	N/A ²	N/A ²	N/A ²
Aft Body					
MPC 1 to P/L	20.0	N/A ²	N/A ²	N/A ²	N/A ²
Aux Bus A					
MPC 2 to P/L	20.0	N/A ²	N/A ²	N/A ²	N/A ²
Aux Bus B					

¹ Internal Power

² Not applicable to this analysis, see Figure 3.1-1

TABLE 4.1.2.1-I SEPS ANALYSIS/LAUNCH EPDC REDLINE COMPARISON

MEASUREMENT DESCRIPTION	LAUNCH REDLINE		ANALYSIS VALUE		
	MIN	MAX	MIN	MAX	TIME
Main Bus A Voltage (Volts) ¹	27.7	32.0	28.33	-	L/O-00:20,-00:18
Main Bus B Voltage (Volts) ¹	27.7	32.0	28.61	-	L/O-00:20,-00:18
Main Bus C Voltage (Volts) ¹	27.7	32.0	28.61	-	L/O-00:20,-00:18
ESS Bus 1 BC Voltage (Volts) ¹	25.5	38.0	27.29	-	L/O-00:20,-00:18
ESS Bus 2 CA Voltage (Volts) ¹	25.5	38.0	27.24	-	L/O-00:20,-00:18
ESS Bus 3 AB Voltage (Volts) ¹	25.5	38.0	27.30	-	L/O-00:20,-00:18
Fwd PCA Main A Amps (Amps) ²	-	211.0	-	158.8	L/O-00:35
Fwd PCA Main B Amps (Amps) ²	-	239.0	-	166.8	L/O-00:35
Fwd PCA Main C Amps (Amps) ²	-	240.0	-	244.50	L/O-00:35
Mid PCA Main A Amps (Amps) ²	-	93.0	-	74.1	L/O-00:35
Mid PCA Main B Amps (Amps) ²	-	51.0	-	56.3	L/O-04:00
Mid PCA Main C Amps (Amps) ²	-	6.0	-	17.4	L/O-01:50,-01:20
Aft PCA-4 Voltage (Volts) ¹	27.0	32.0	27.59	-	L/O-00:20,-00:18
Aft PCA-5 Voltage (Volts) ¹	27.0	32.0	27.59	-	L/O-00:20,-00:18
Aft PCA-6 Voltage (Volts) ¹	27.0	32.0	27.59	-	L/O-00:20,-00:18
Aft PCA Main A Amps (Amps) ²	-	118.0	-	95.2	L/O-01:50
Aft PCA Main B Amps (Amps) ²	-	108.0	-	82.9	L/O-01:50
Aft PCA Main C Amps (Amps) ²	-	101.0	-	52.3	L/O-01:50

¹ Internal power to T -5 seconds (PXI to L/O-7.25 sec)

² Internal power to T -30 seconds (PXI to L/O-32.25 sec)

may, therefore, be lower than those indicated in Figures 4.1-8 through 4.1-10, with correspondingly higher current levels.

- b. Instantaneous power levels may be significantly higher than those indicated in Figures 4.1-2 through 4.1-4, due to pseudo-random TCS heater cycling. These higher power levels will be translated into correspondingly higher branch currents and lower EPDC bus voltages.

4.3 CONCLUSIONS

Based upon the results of this analysis of the STS-1 flight, it is concluded that:

- a. The nominal flight, as analyzed, is within the capabilities of the Orbiter power generation system.
- b. The operation of Orbiter electrical equipment is, in general, compatible with the capabilities of the Orbiter EPDC subsystem. Only one constraint violation was noted, that being a small current overload between MD1 and MPC1. Due to the level of modeling fidelity inherent in the SEPS program and the electrical equipment on/off configuration uncertainties associated with the CAS EPS data base, this current overload may not be real. It does serve to indicate, however, that under the existing analysis conditions the 100 amp fuse between MD1 and MPC1 may be blown. Further, if FCP2 fails while in this configuration, the fuse will almost certainly be blown due to the effects of the shared loads identified in Table 4.1.1.2-i.
- c. The flight, as analyzed, requires the operation of Inverter 9 above 100% of rated load for periods of time up to 2.53 hours. The indicated overloads result from simultaneous operation of TACAN #3, the OS/PS Panel Lights, and the OFT Foodwarmer, but are due in part to the configuration of other electrical subsystems.

4.4 RECOMMENDATIONS

It is recommended that care be taken to ensure that instantaneous and prevailing on/off configurations of electrical equipment do not unduly challenge or exceed accepted EPDC subsystem or electrical component limitations.

5.0 TAPE INFORMATION

The SEPS program output tape created by this analysis is tape number X09507. This tape contains the compacted dictionary on file 1, the Phase I interface data on file 2, the Phase II interface data on file 3, and the plot data on file 4.

6.0 SUPPLEMENTARY DATA

This section presents the output data requested by Pearline E. Collector/CG5, in support of the FOD STS-1 Configuration Management Library, in accordance with the Analysis Request Form of Ref. 11. The data consists of specifically requested graphical data, SEPS program circuit solutions at specified times, a component time history, and vehicle configurations at specified timepoints. In evaluating this data, it should be kept in mind that the SEPS analysis was initialized on internal power at L/O - 10:00, whereas, in actuality PXI occurs at L/O - 04:56.

6.1 GRAPHICAL DATA

The following graphical data was requested in support of the STS-1 Configuration Management Library, and is contained herein:

- a. Voltage profiles of Orbiter EPDC buses, as modeled by the SEPS computer program, are presented in Figures 6.1-1 through 6.1-30.
- b. Figures 6.1-31 through 6.1-43 present major branch currents as derived from the SEPS EPDC subsystem model.
- c. Figures 6.1-44 through 6.1-113 present profiles of inverter DC load, AC load, efficiency, phase angle, current, bus load, bus phase angle, bus current, and current ratio.
- d. Profiles of accumulated amp-hours and electrical energy and total fuel cell power and current are presented in Figures 6.1-114 through 6.1-117.

6.2 CIRCUIT SOLUTIONS

Figures 6.2-1 through 6.2-46 present the SEPS program circuit solutions at the times specified by the nominal STS-1 Analysis Request Form (Ref 11).

6.3 COMPONENT TIME HISTORY

The component time history of the nominal STS-1 flight, as analyzed, is presented in Figure 6.3-1.

6.4 VEHICLE CONFIGURATIONS AT SPECIFIED TIMEPOINTS

Figures 6.4-1 through 6.4-18 present the Orbiter configurations derived from this analysis, for the timepoints specified by the Nominal STS-1 Analysis Request Form (Ref. 11).

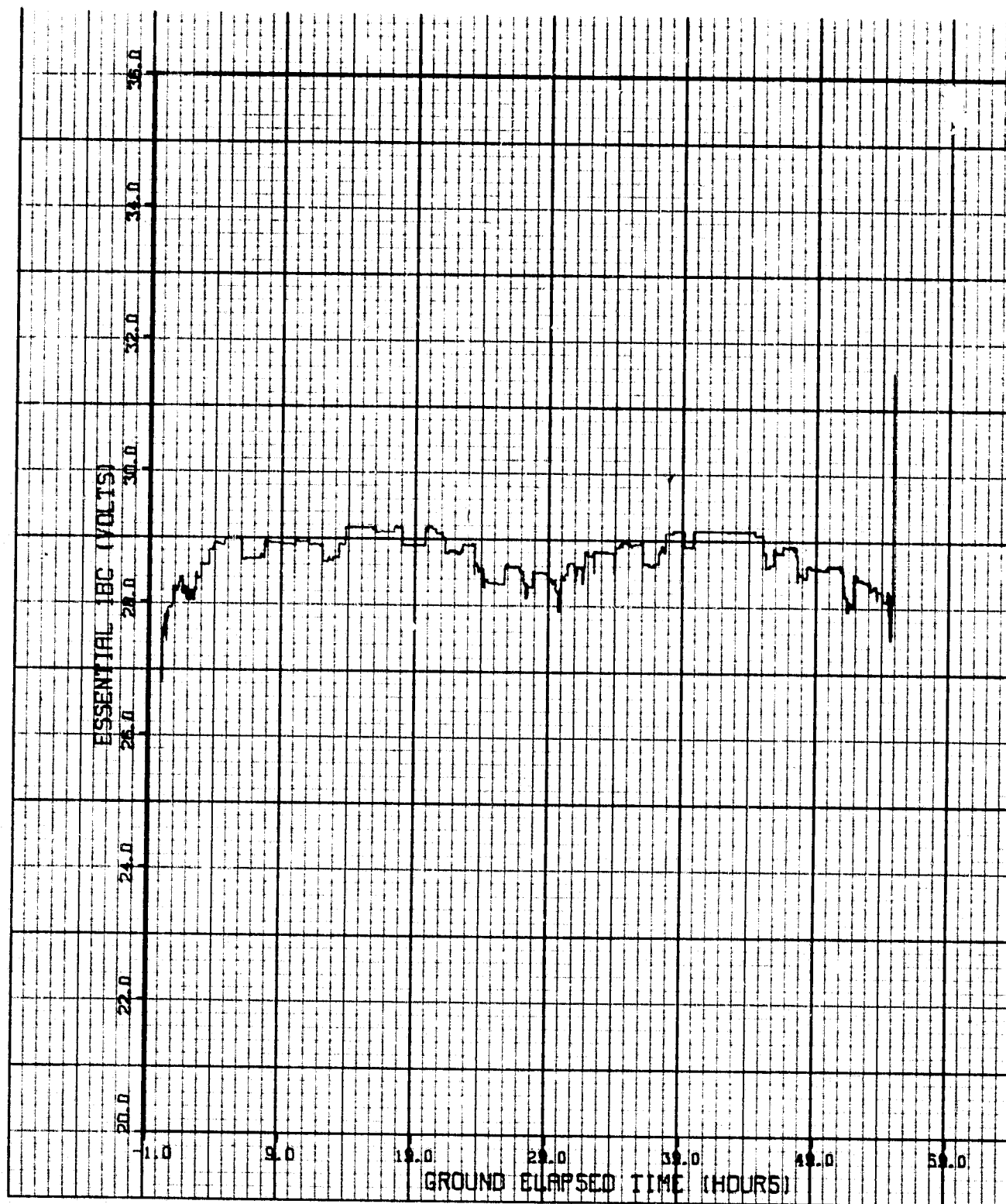


Figure 6.1-1.- Essential IBC voltage

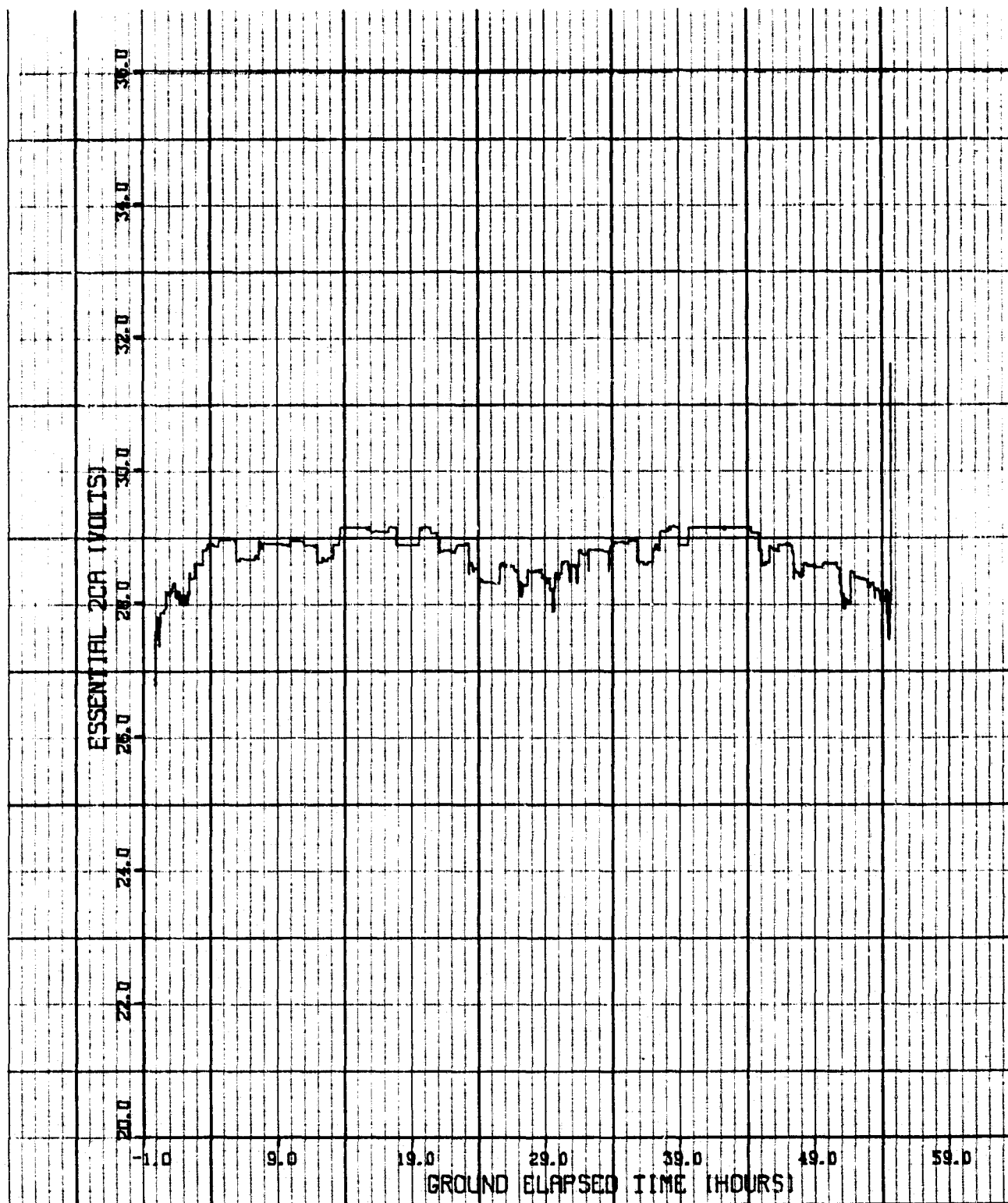


Figure 6.1-2.- Essential 2CA voltage

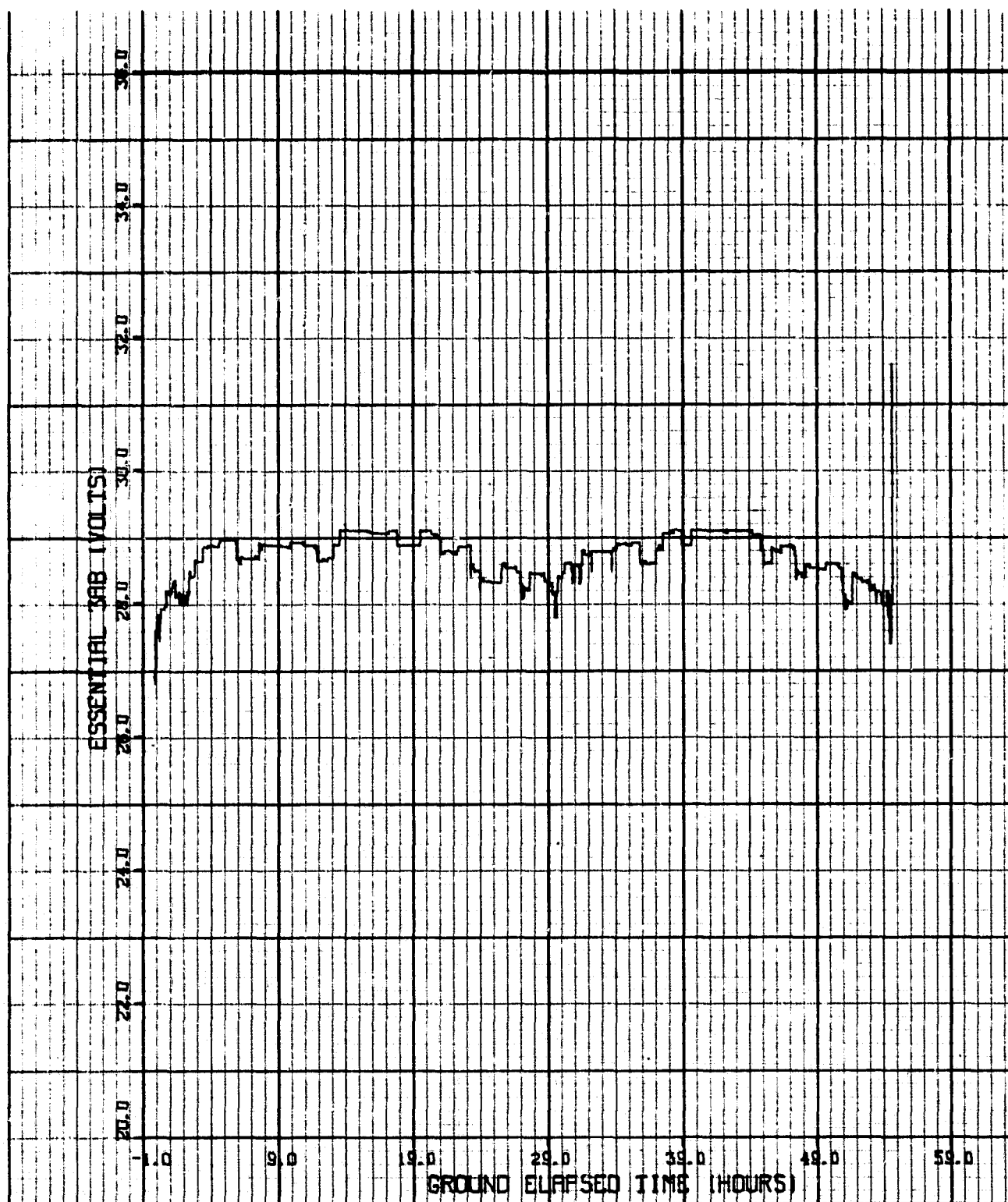


Figure 6.1-3.- Essential 3AB voltage

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OF POOR QUALITY

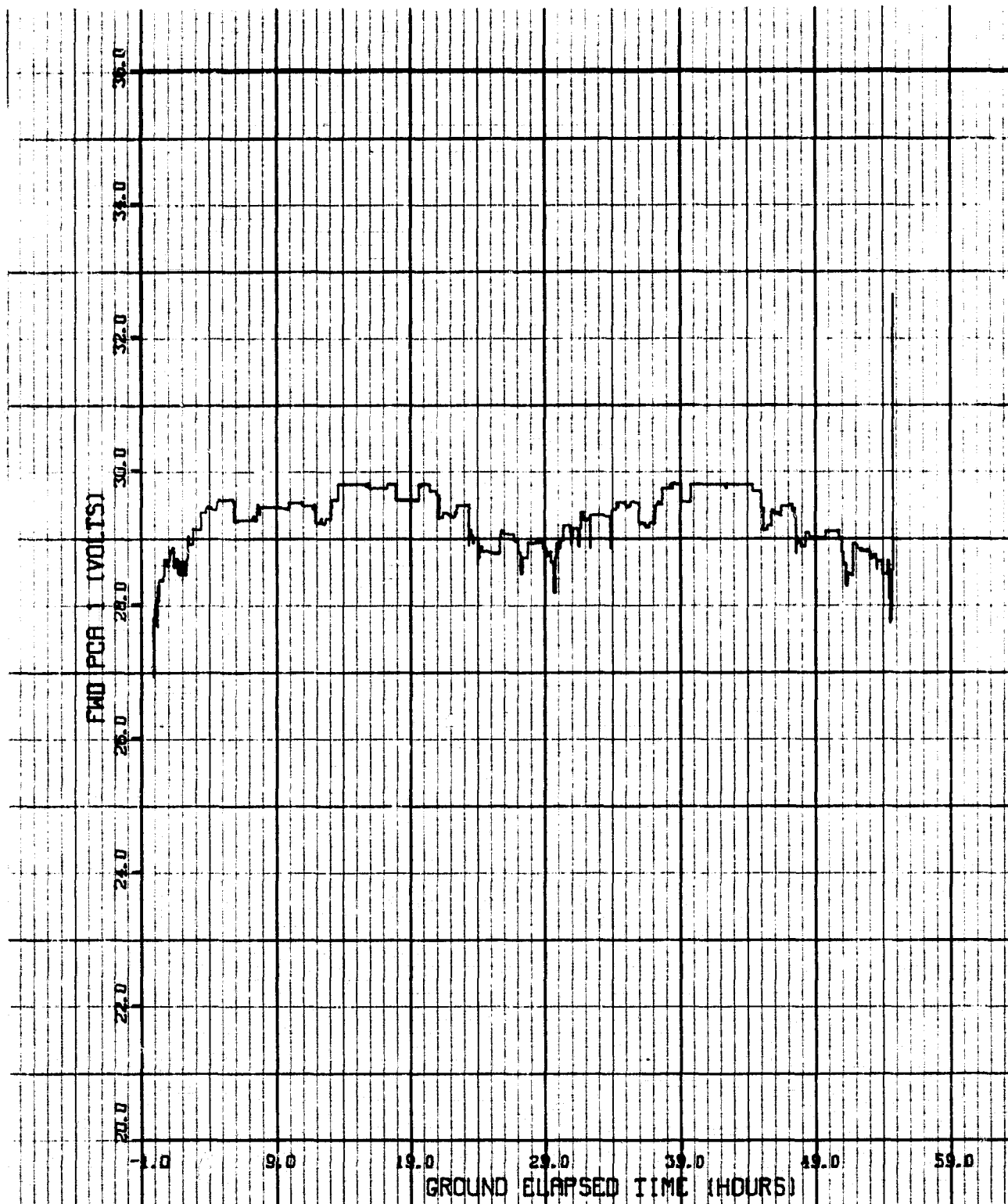


Figure 6.1-4.- FPC 1 voltage

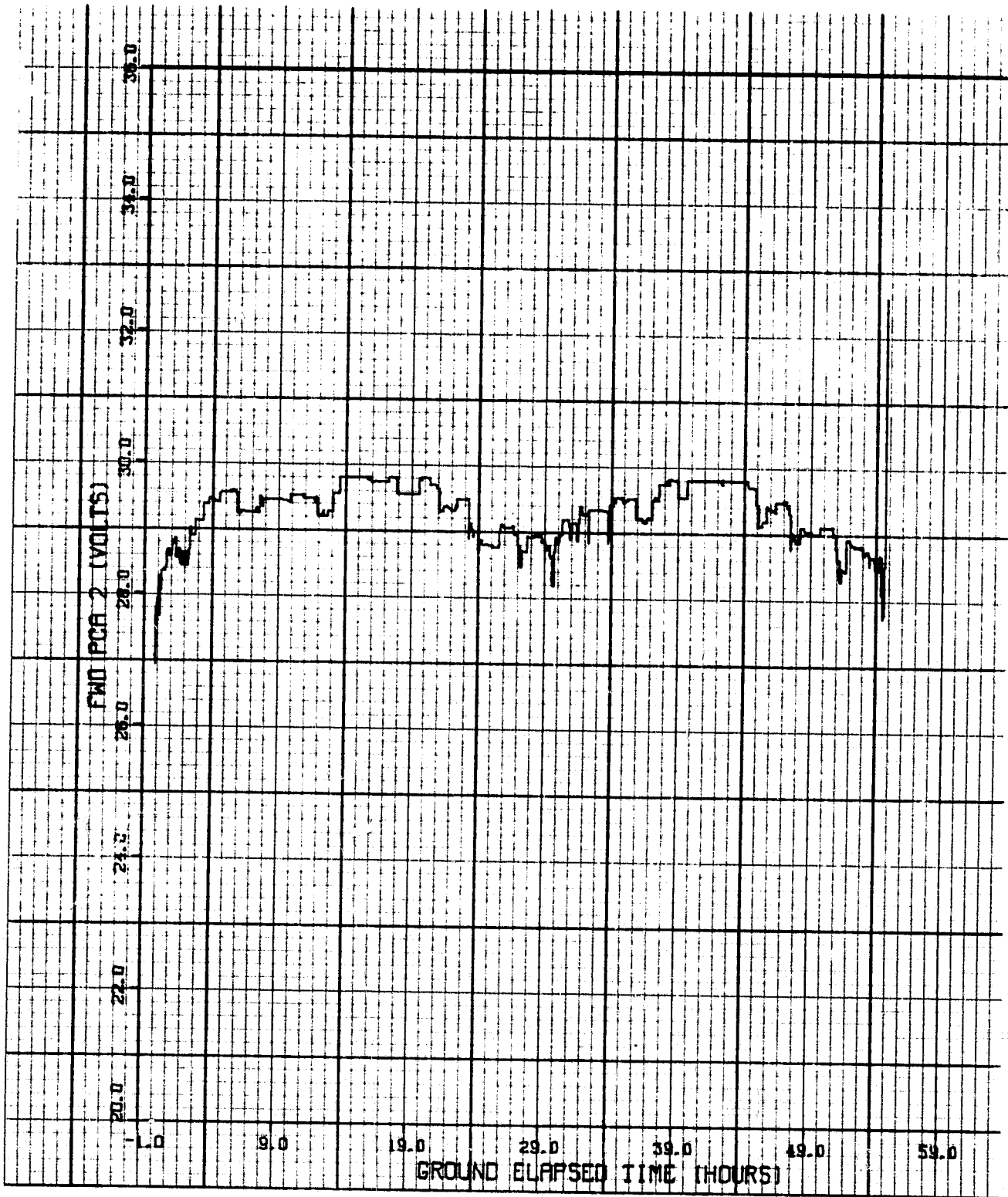


Figure 6.1-5.- FPC 2 voltage

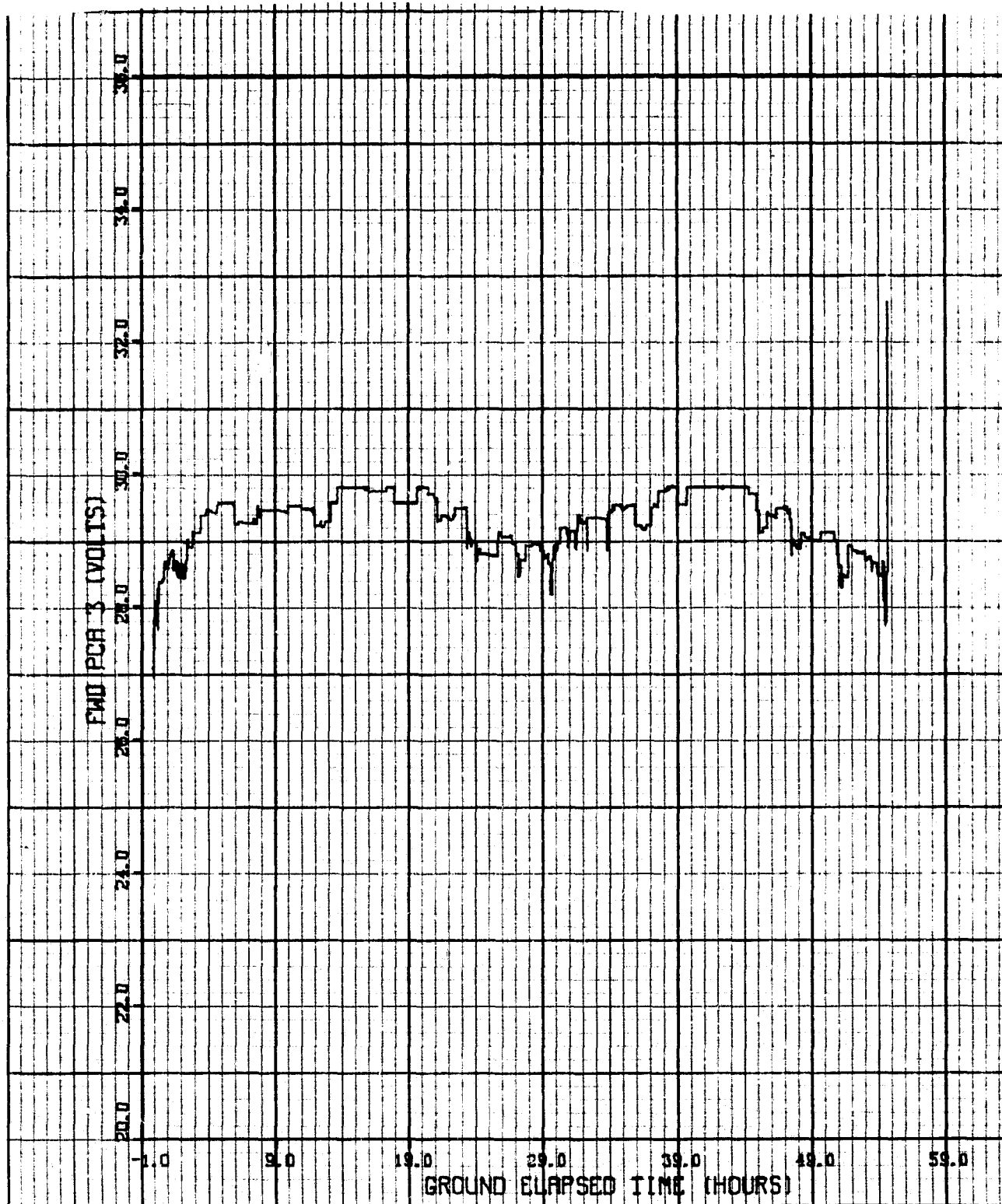


Figure 6.1-6.- FPC 3 voltage

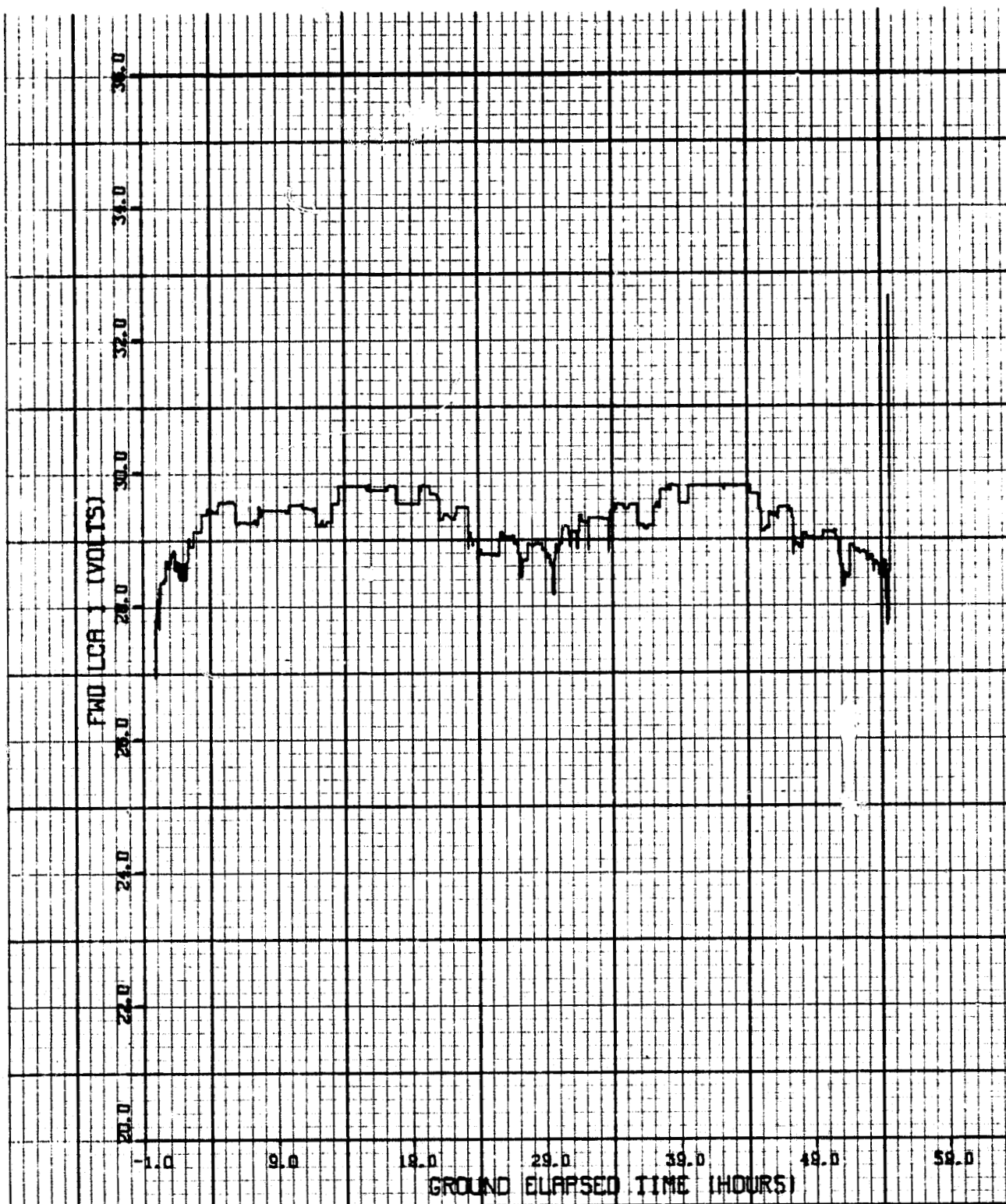


Figure 6.1-7.- FLC 1 voltage

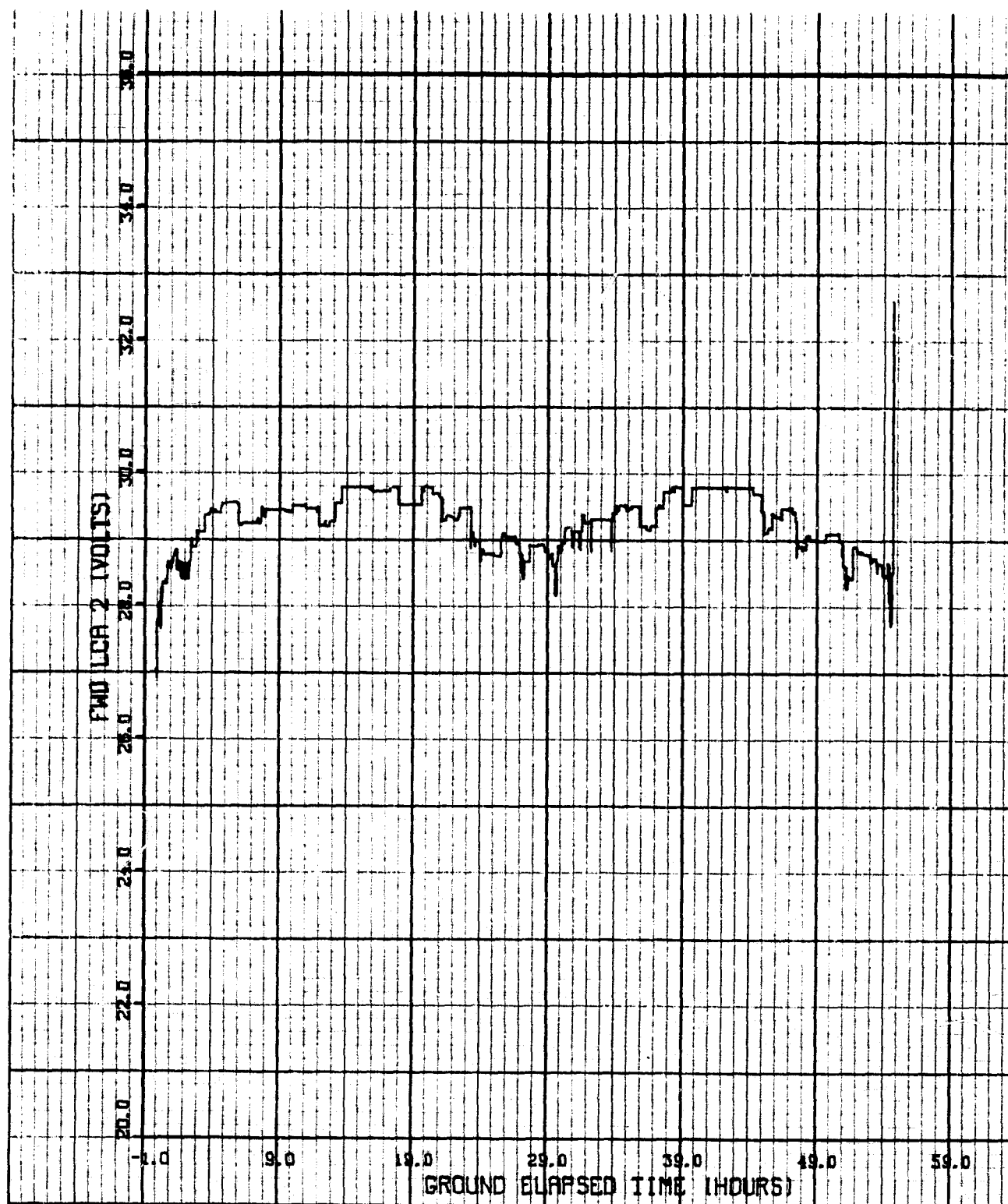


Figure 6.1-8.- FLC 2 voltage

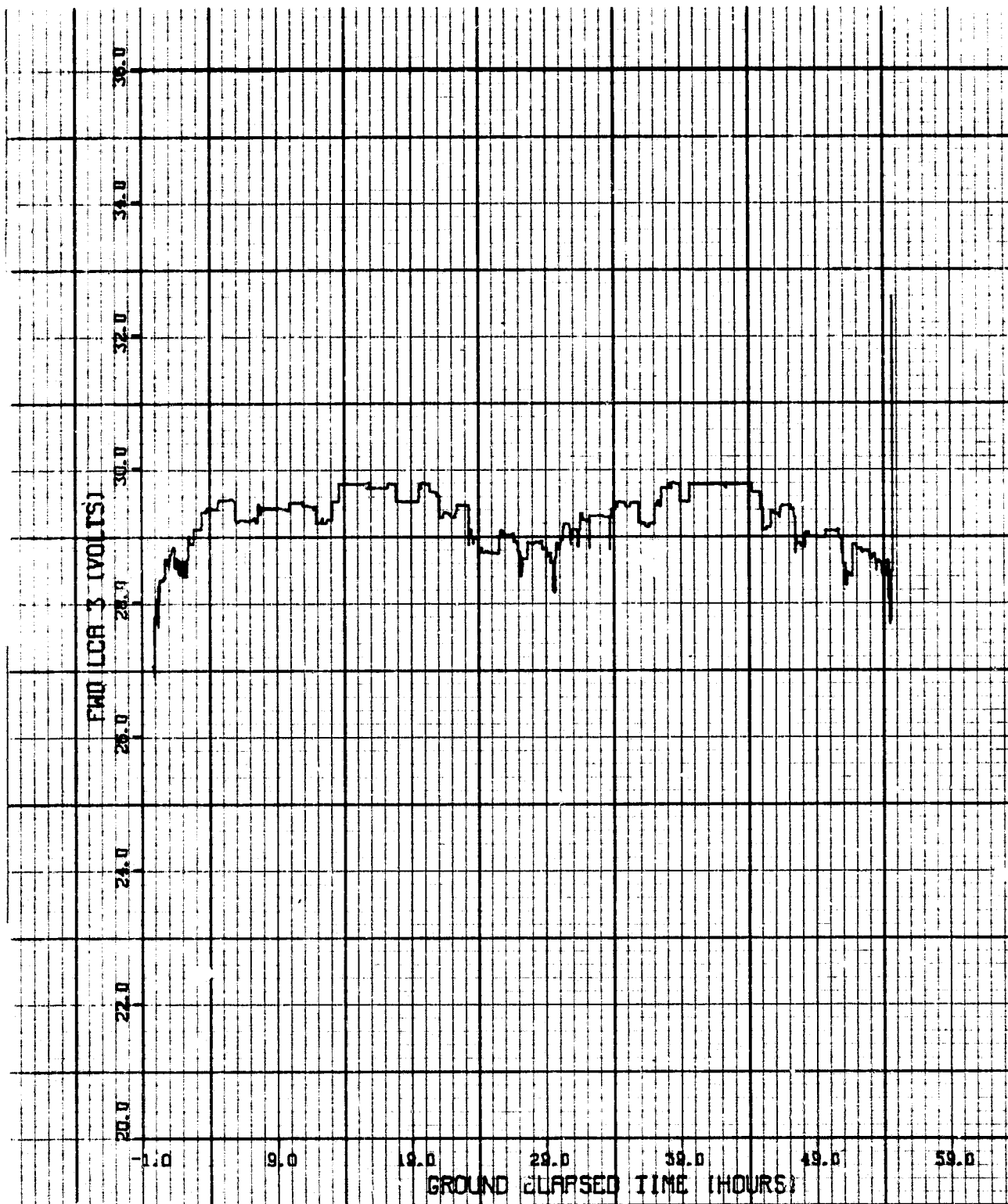


Figure 6.1-9.- FLC 3 voltage

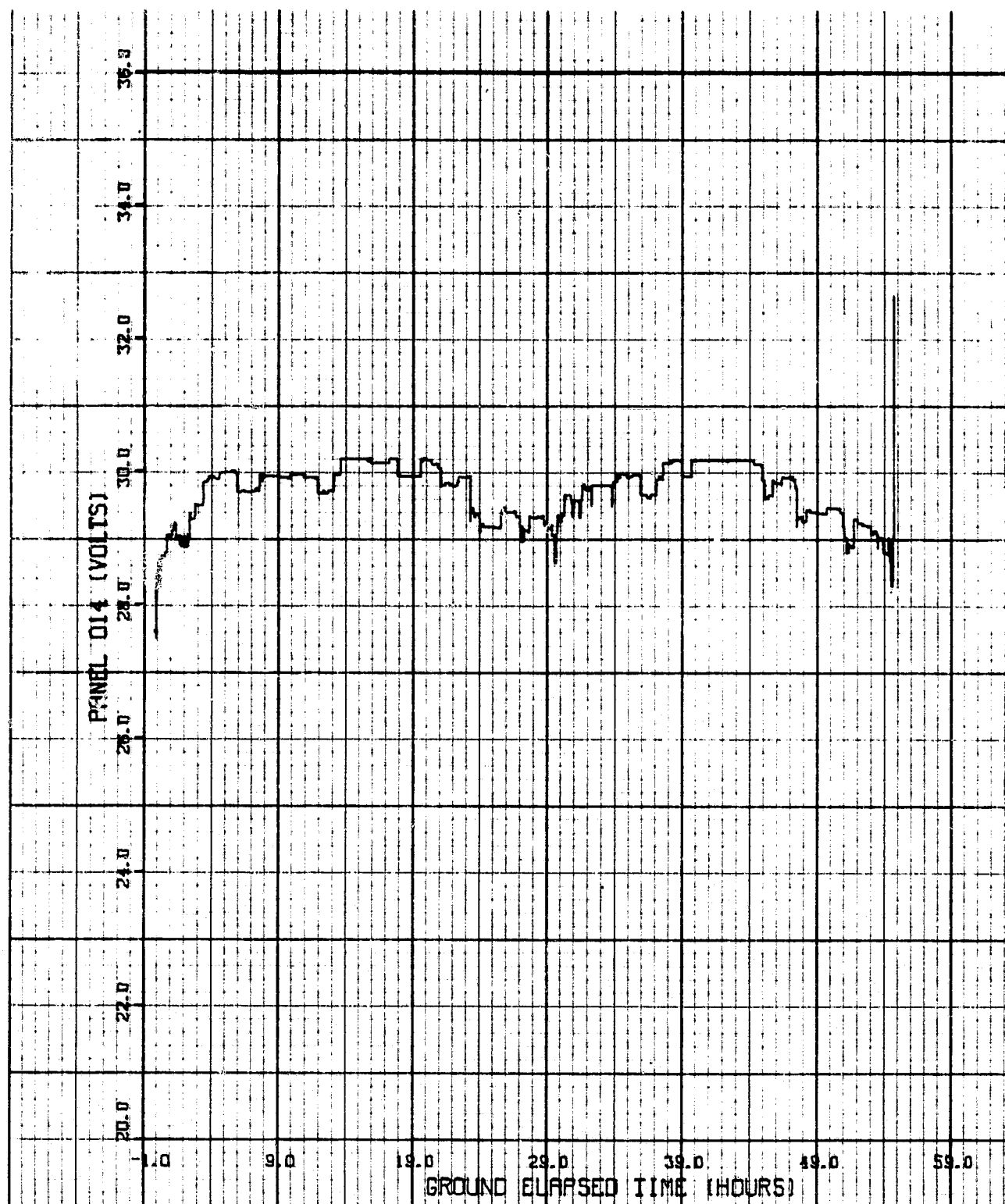


Figure 6.1-10.- Panel 014 voltage

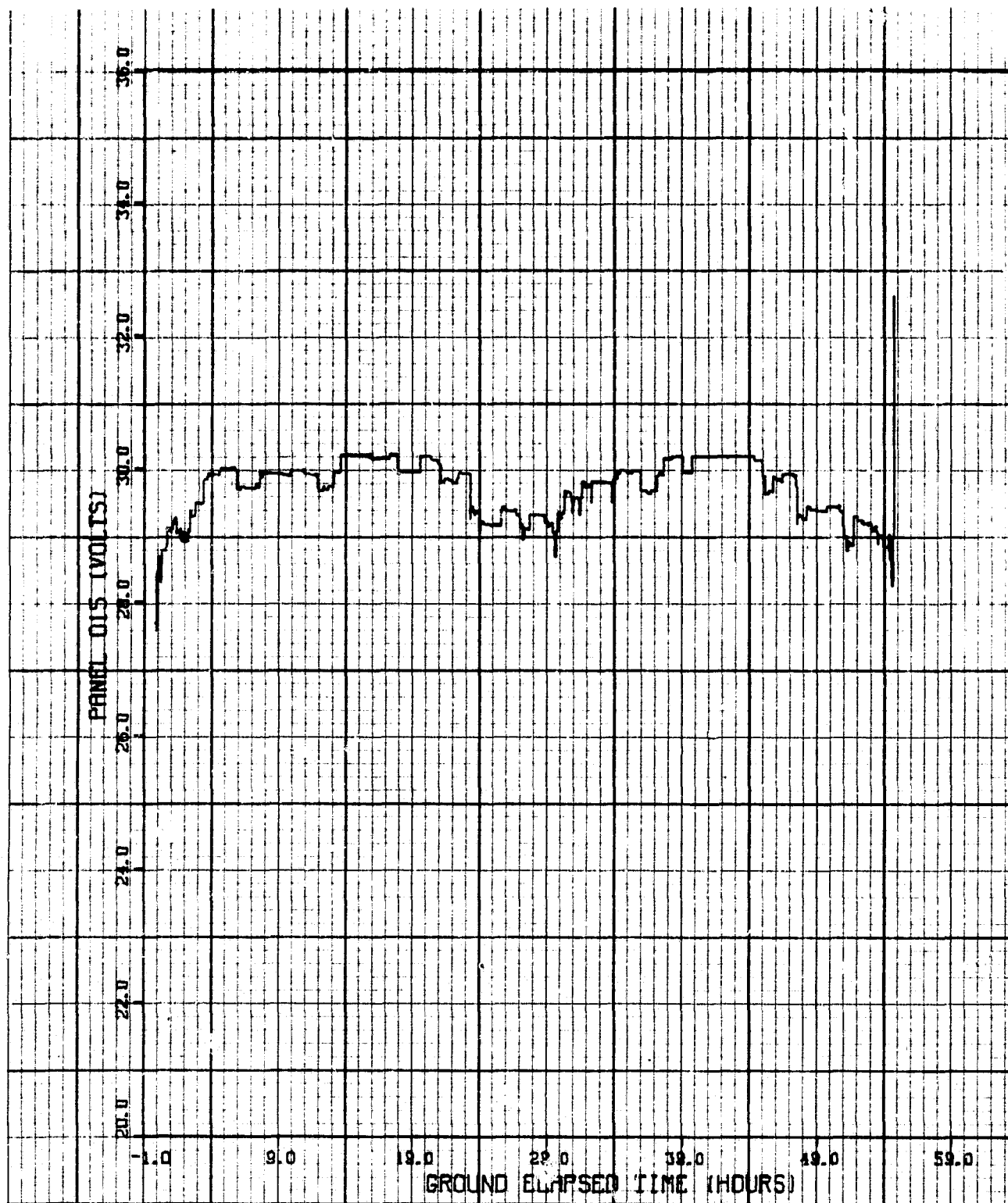


Figure 6.1-11.- Panel 015 voltage

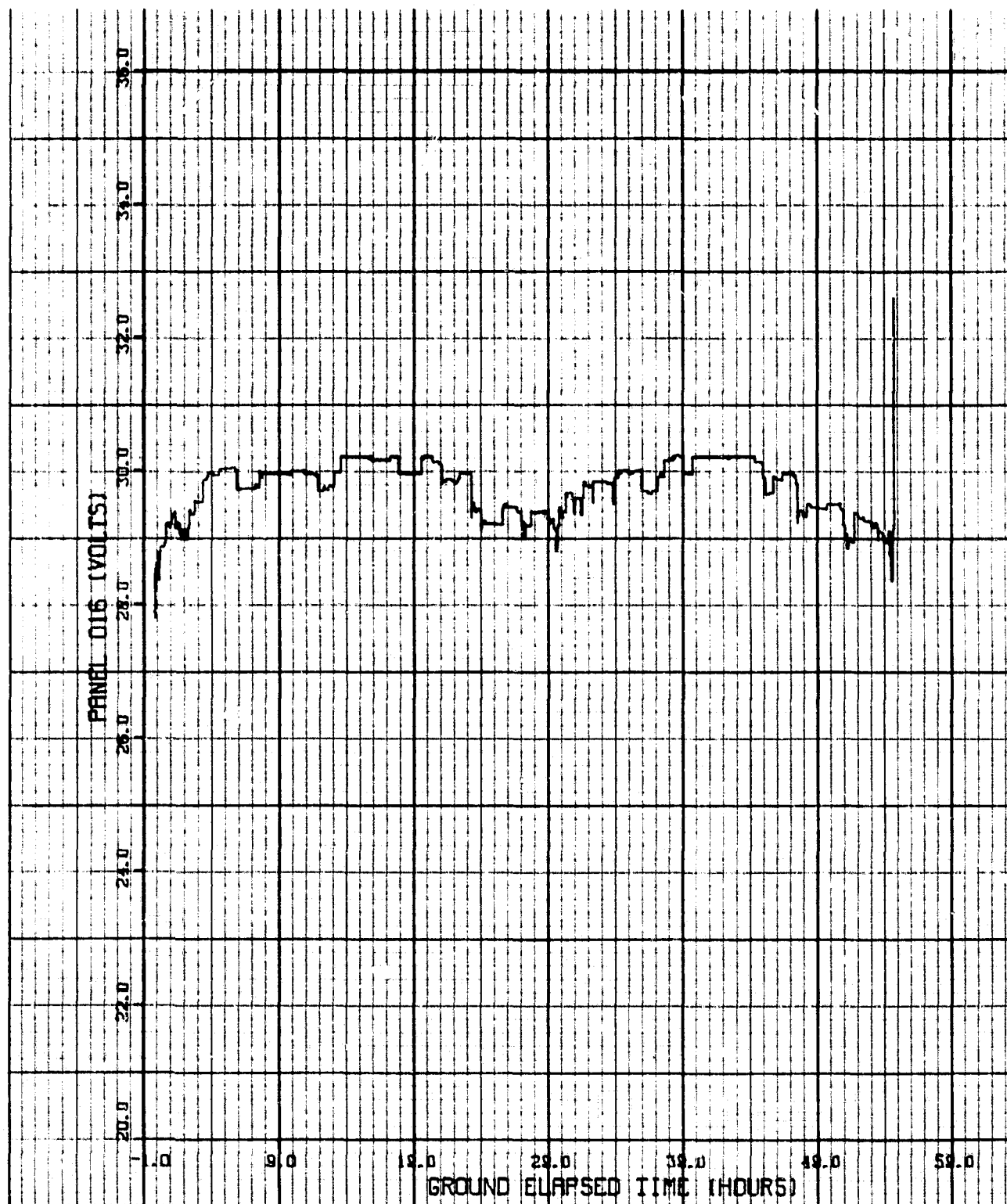


Figure 6.1-12.- Panel 016 voltage

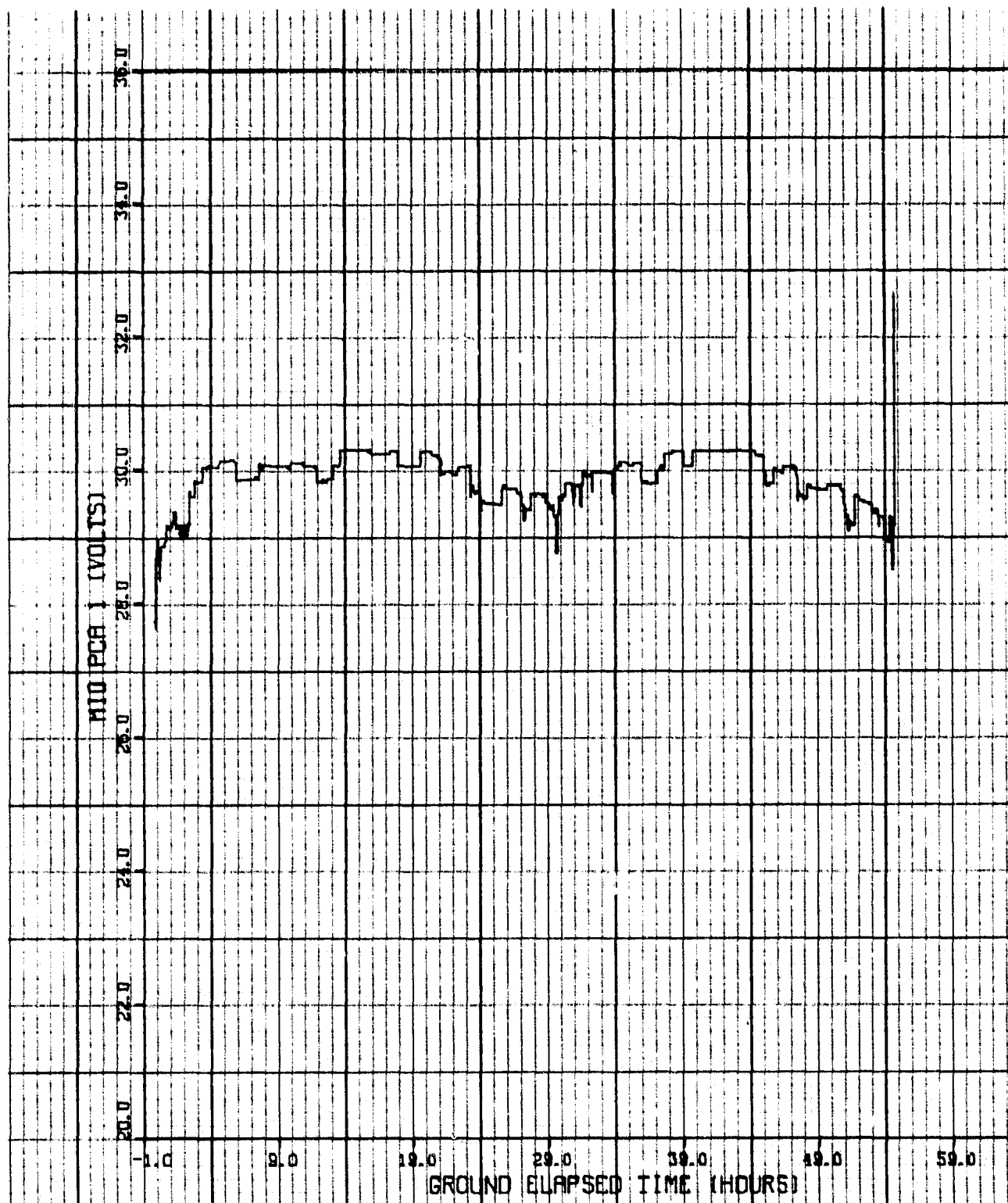


Figure 6.1-13.- MPC 1 voltage

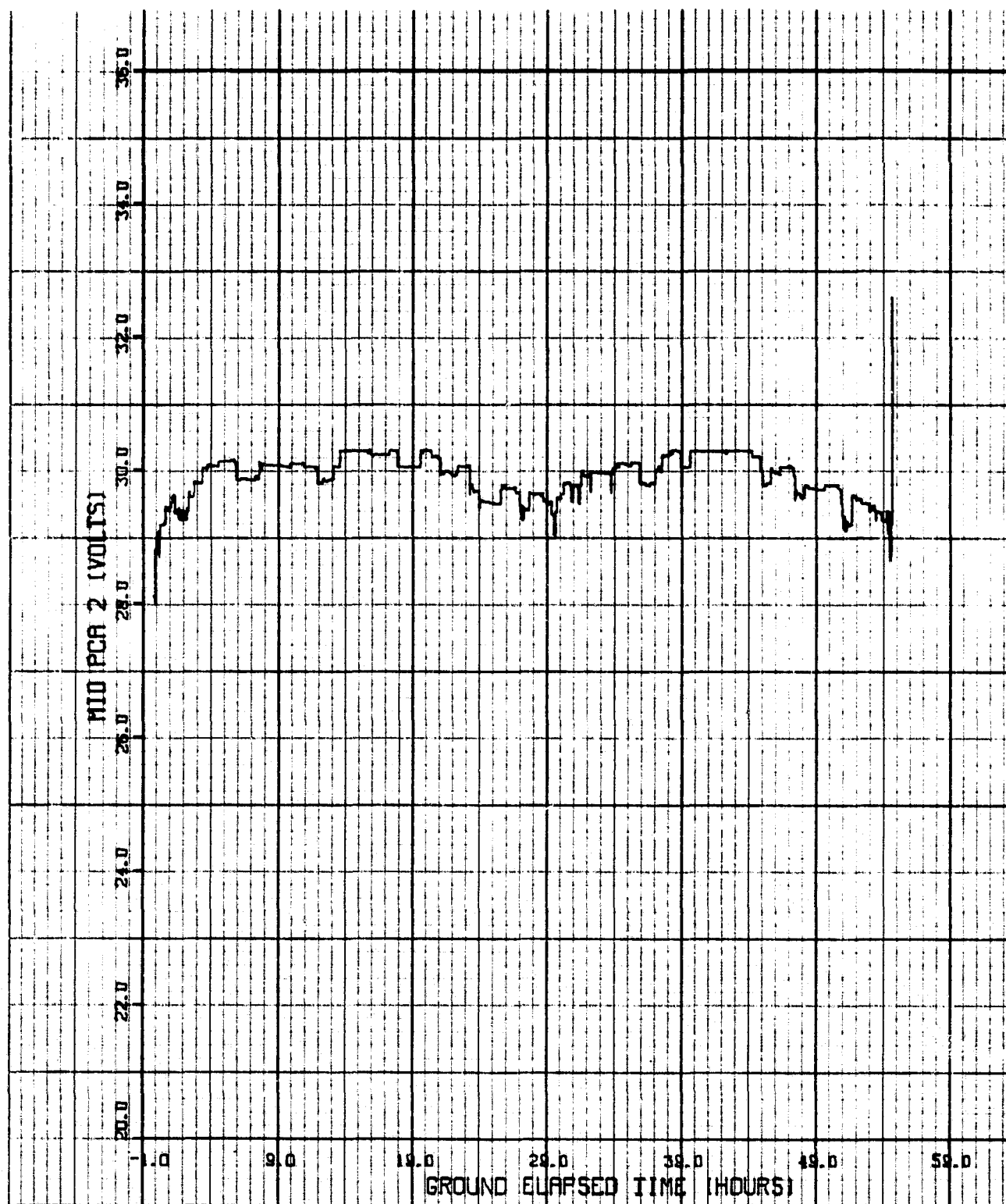


Figure 6.1-14.- MPC 2 voltage

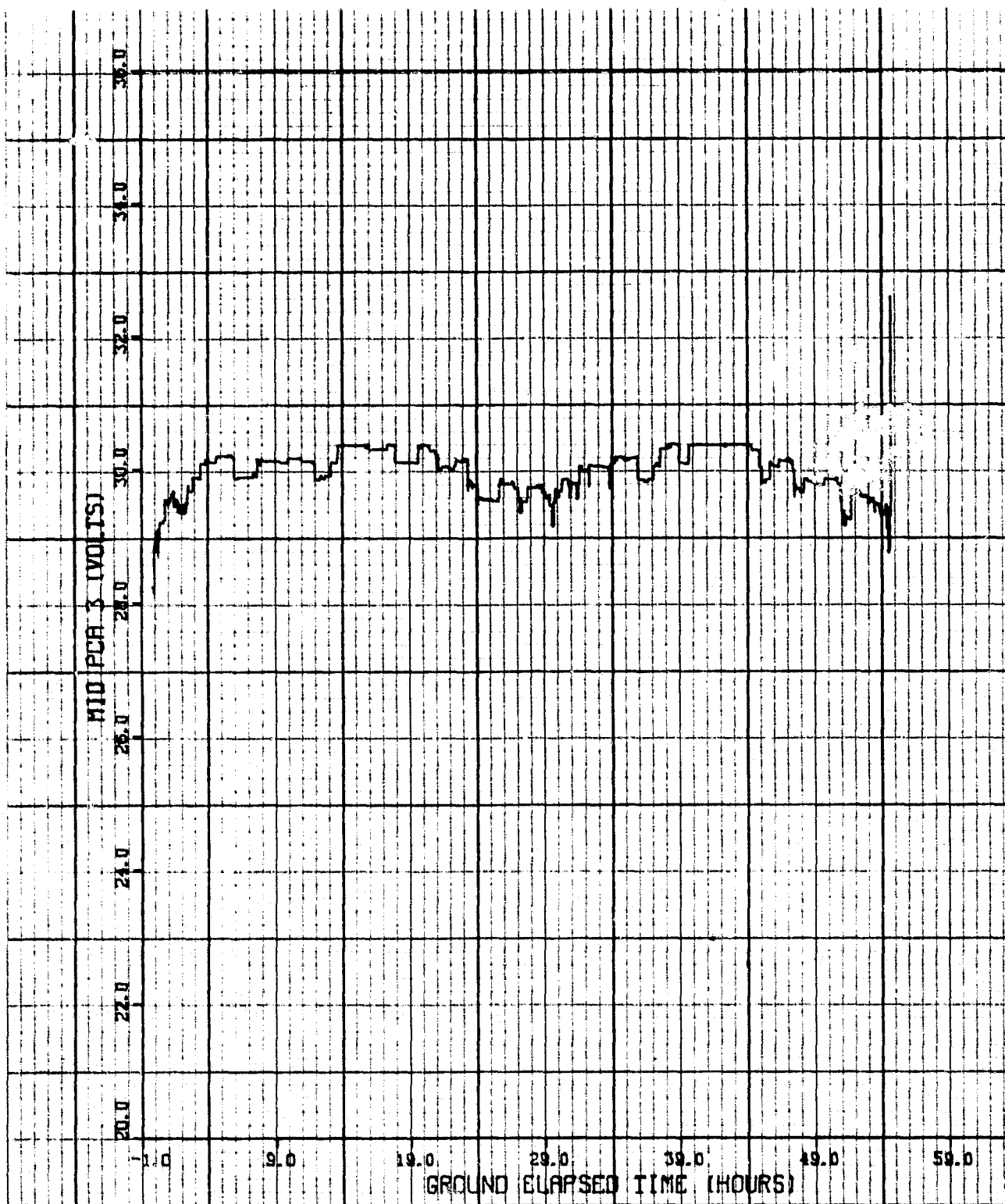


Figure 6.1-15.- MPC 3 voltage

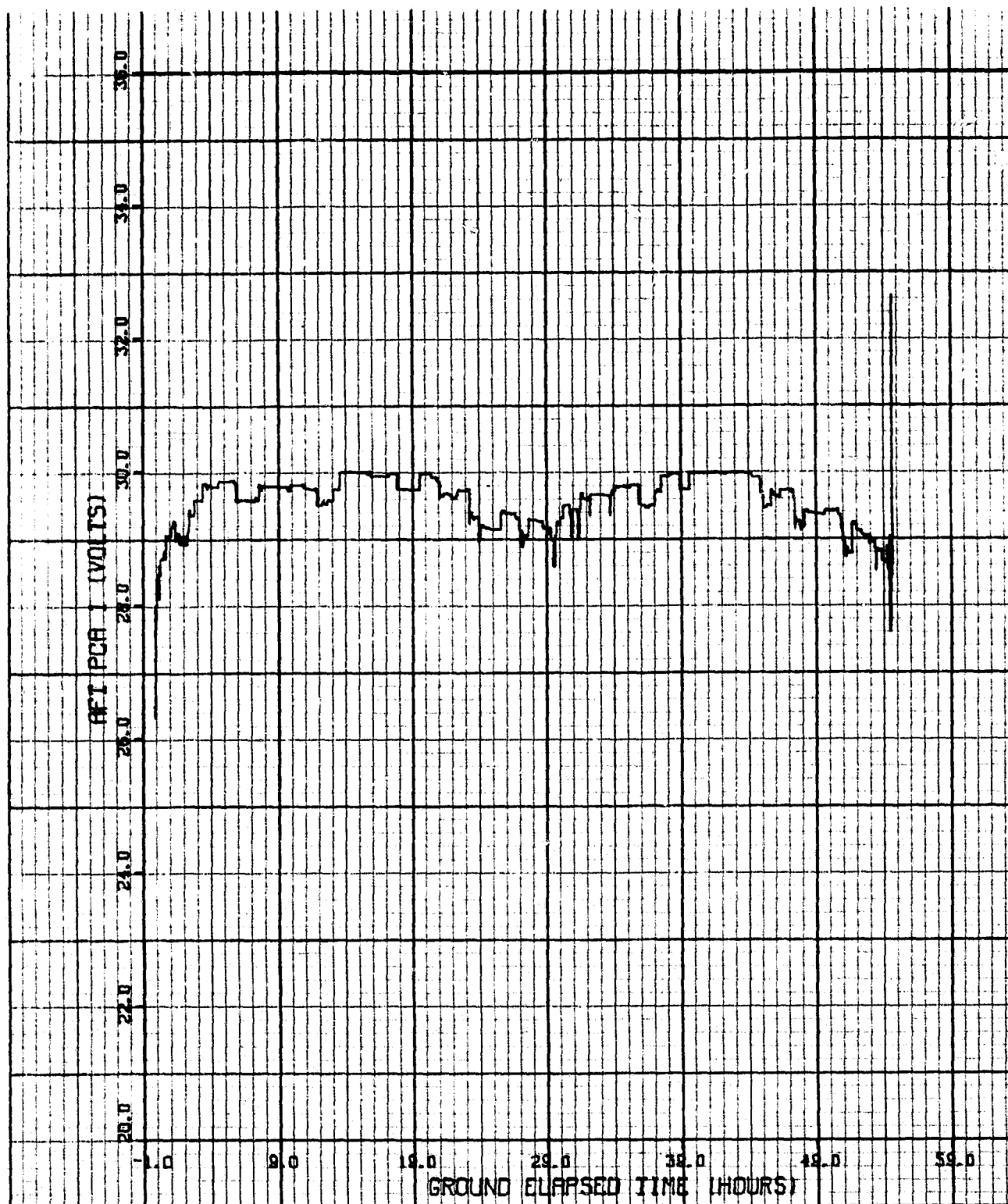


Figure 6.1-16.- APC 1 voltage

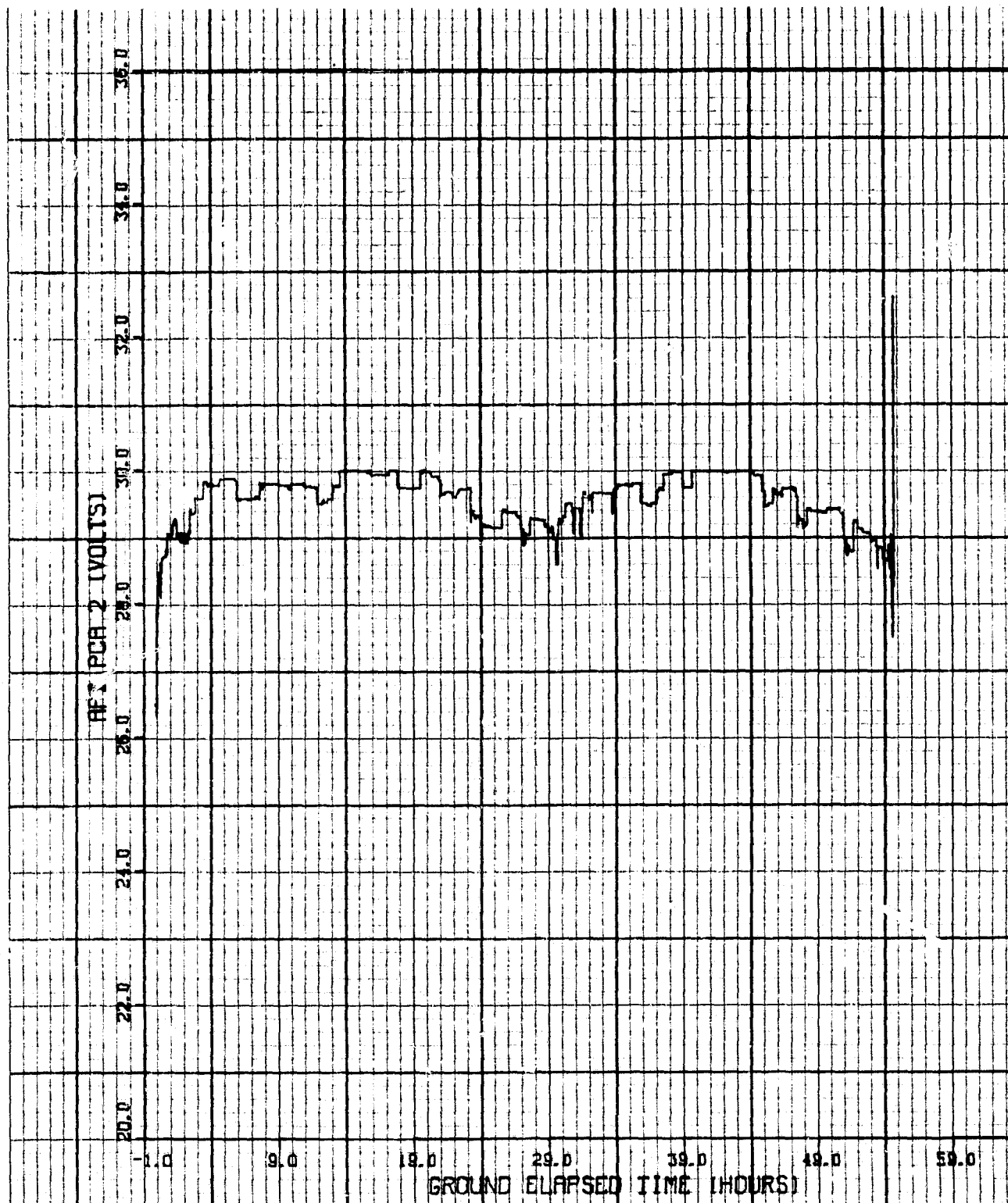


Figure 6.1-17.- APC 2 voltage

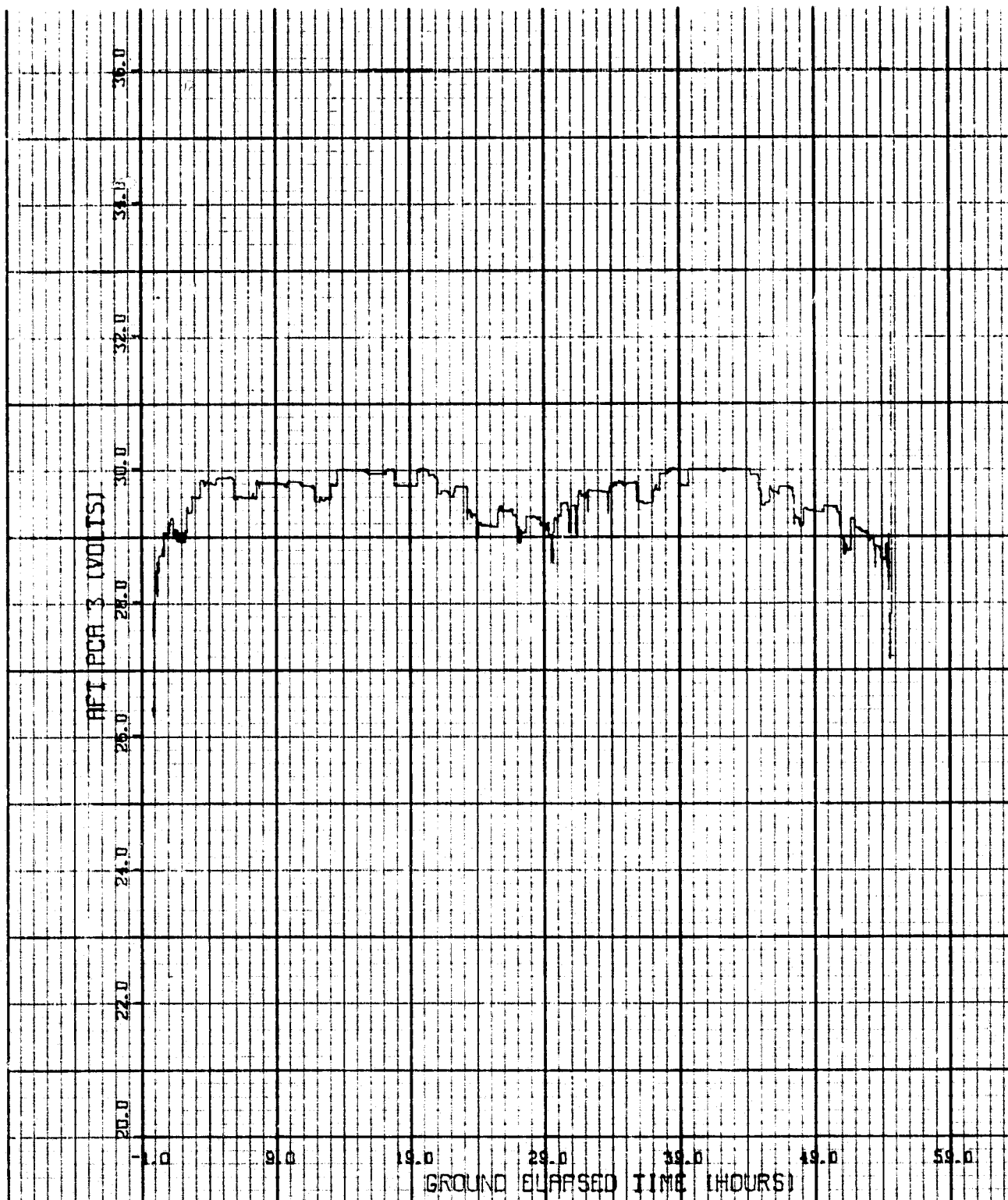


Figure 6.1-18.- APC 3 voltage

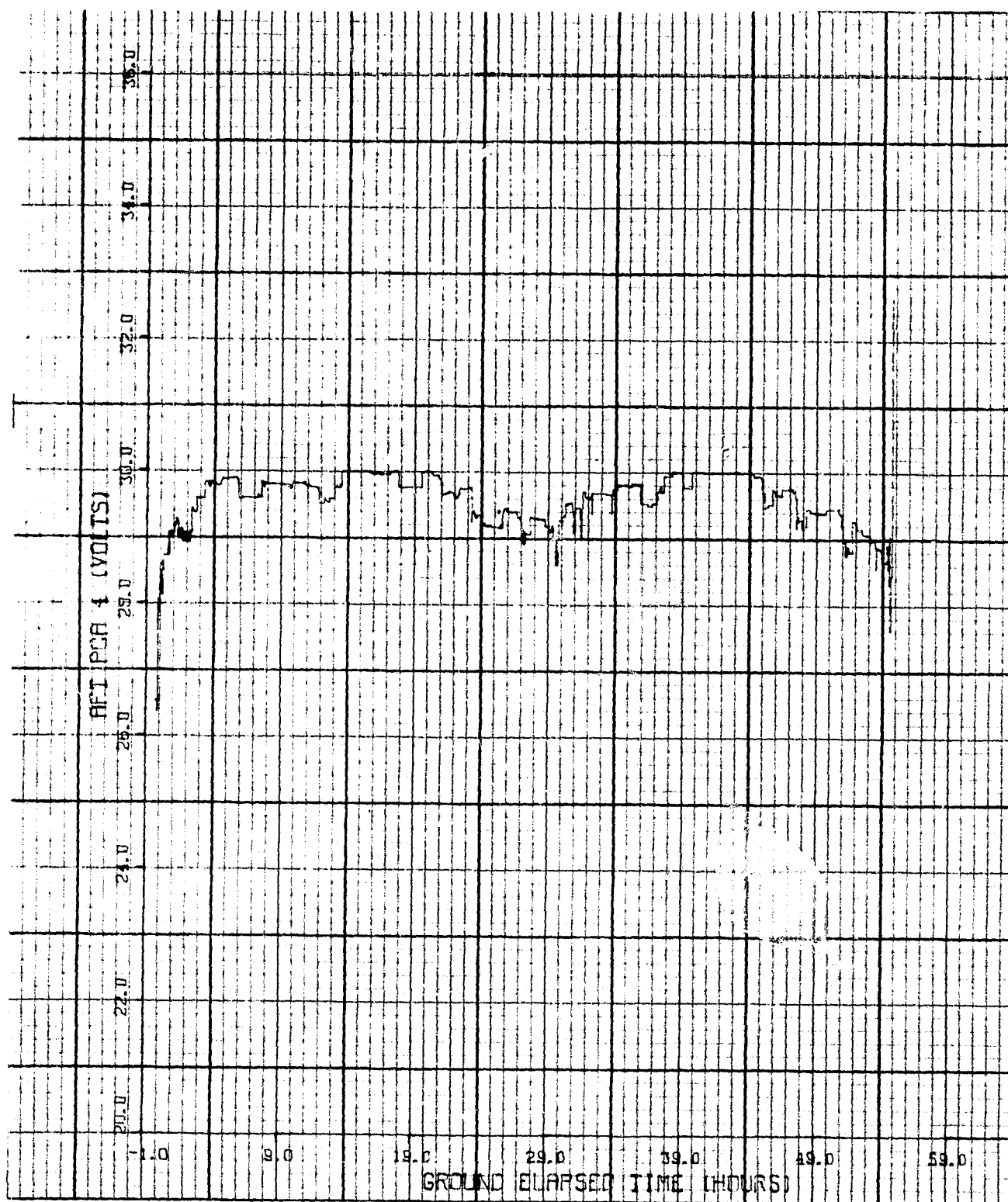


Figure 6.1-19.- APC 4 voltage

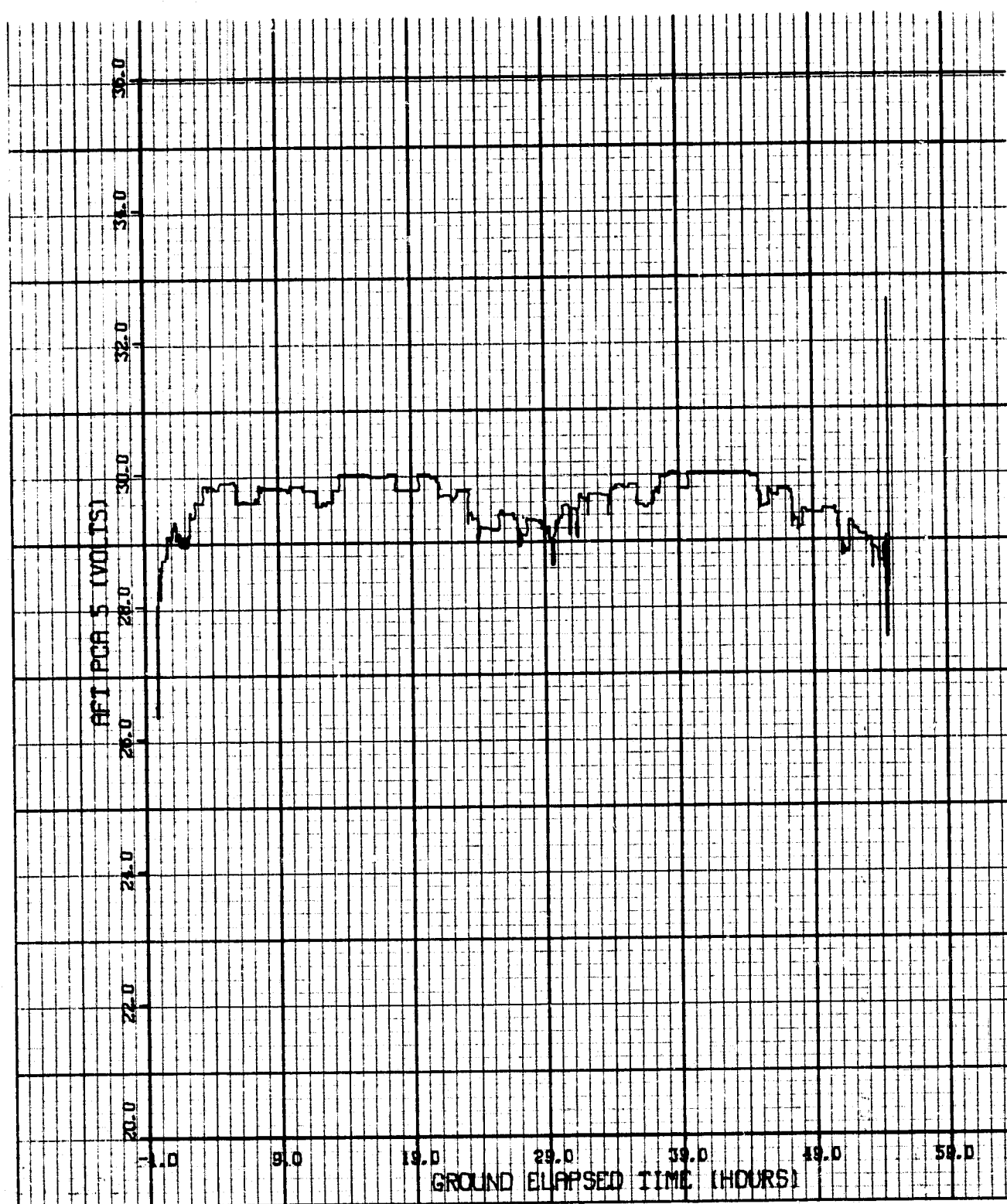


Figure 6.J-20.- APC 5 voltage

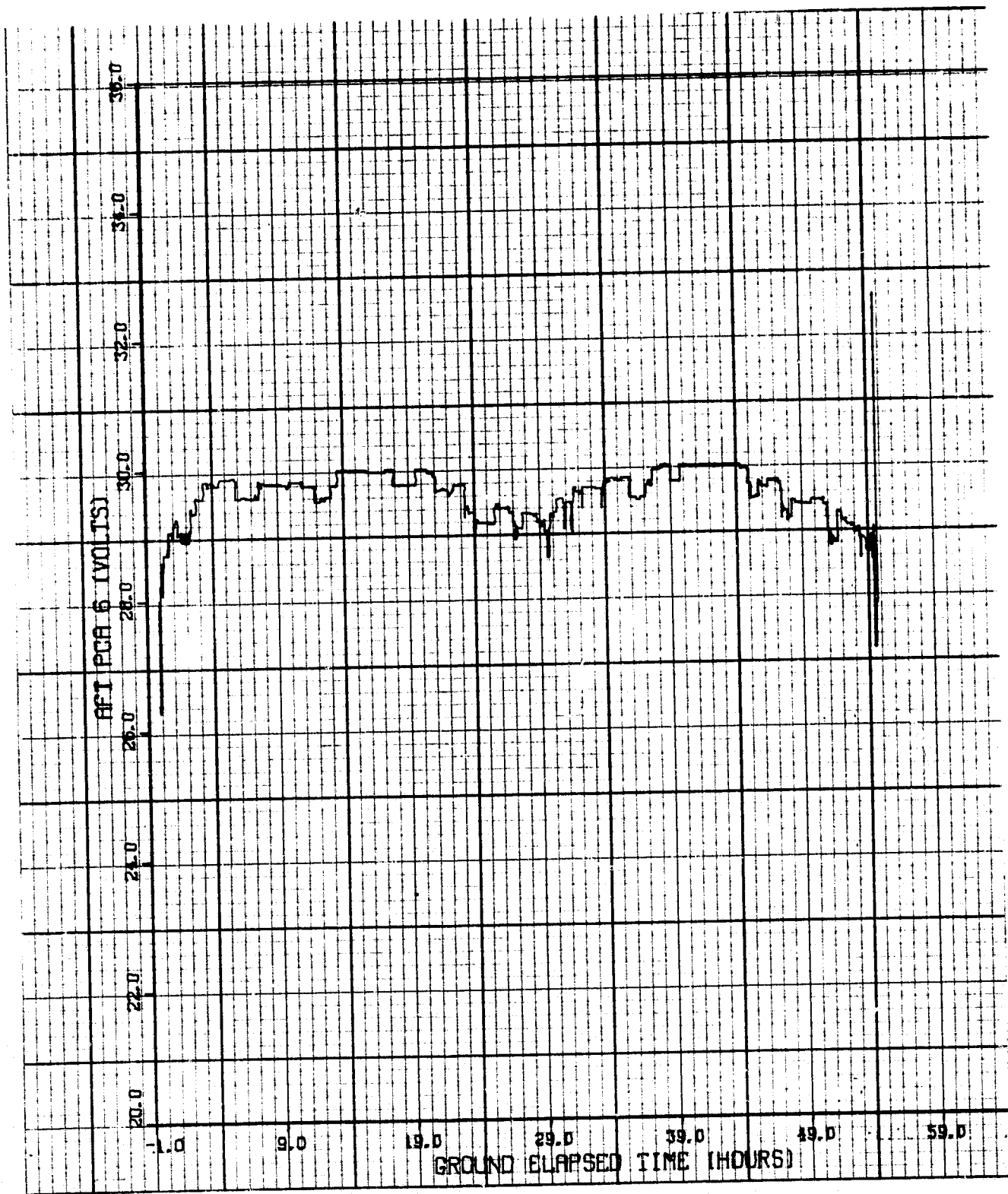


Figure 6.1-21.- APC 6 voltage

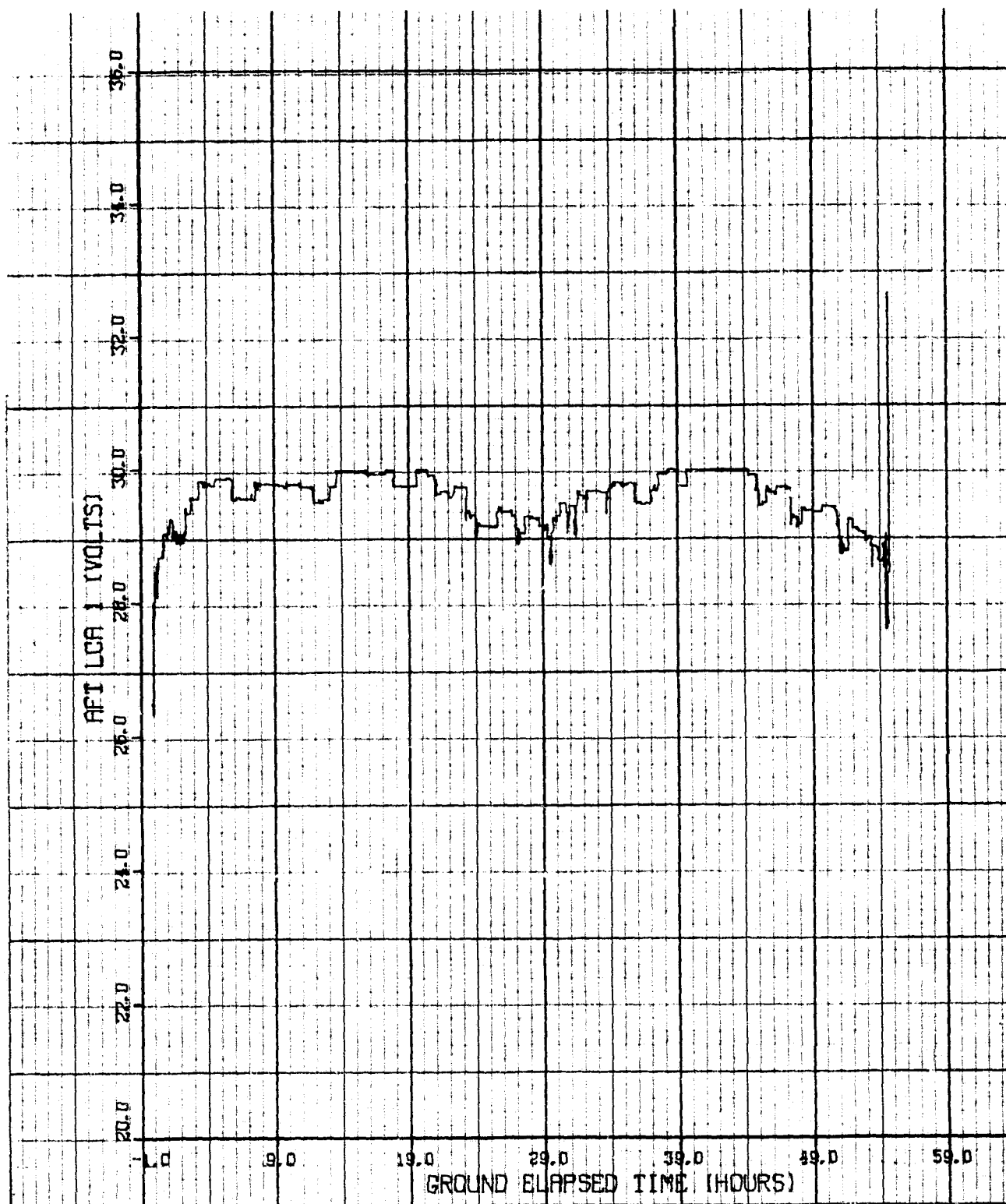


Figure 6.1-22.- ALC 1 voltage

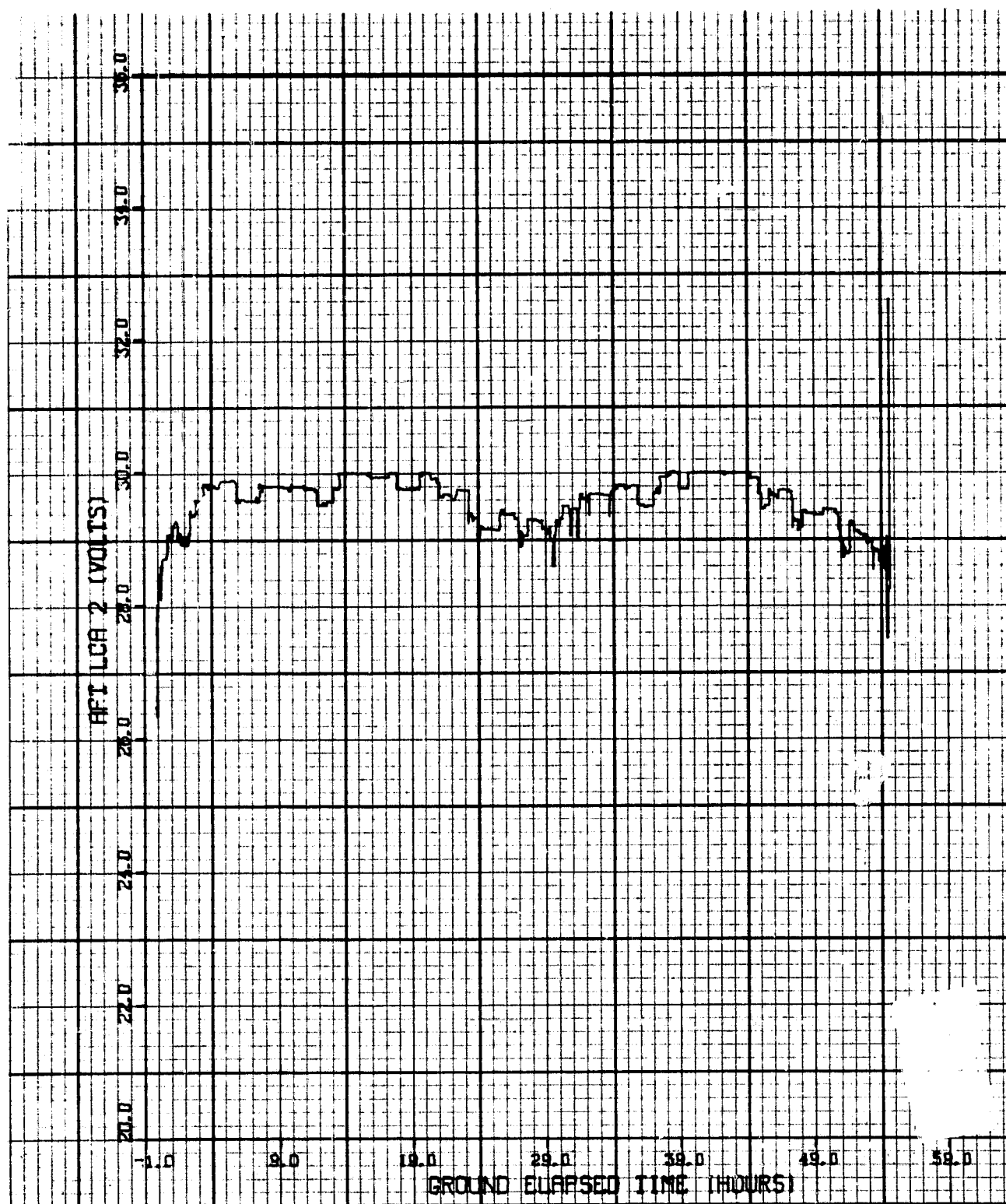


Figure 6.1-23.- ALC 2 voltage

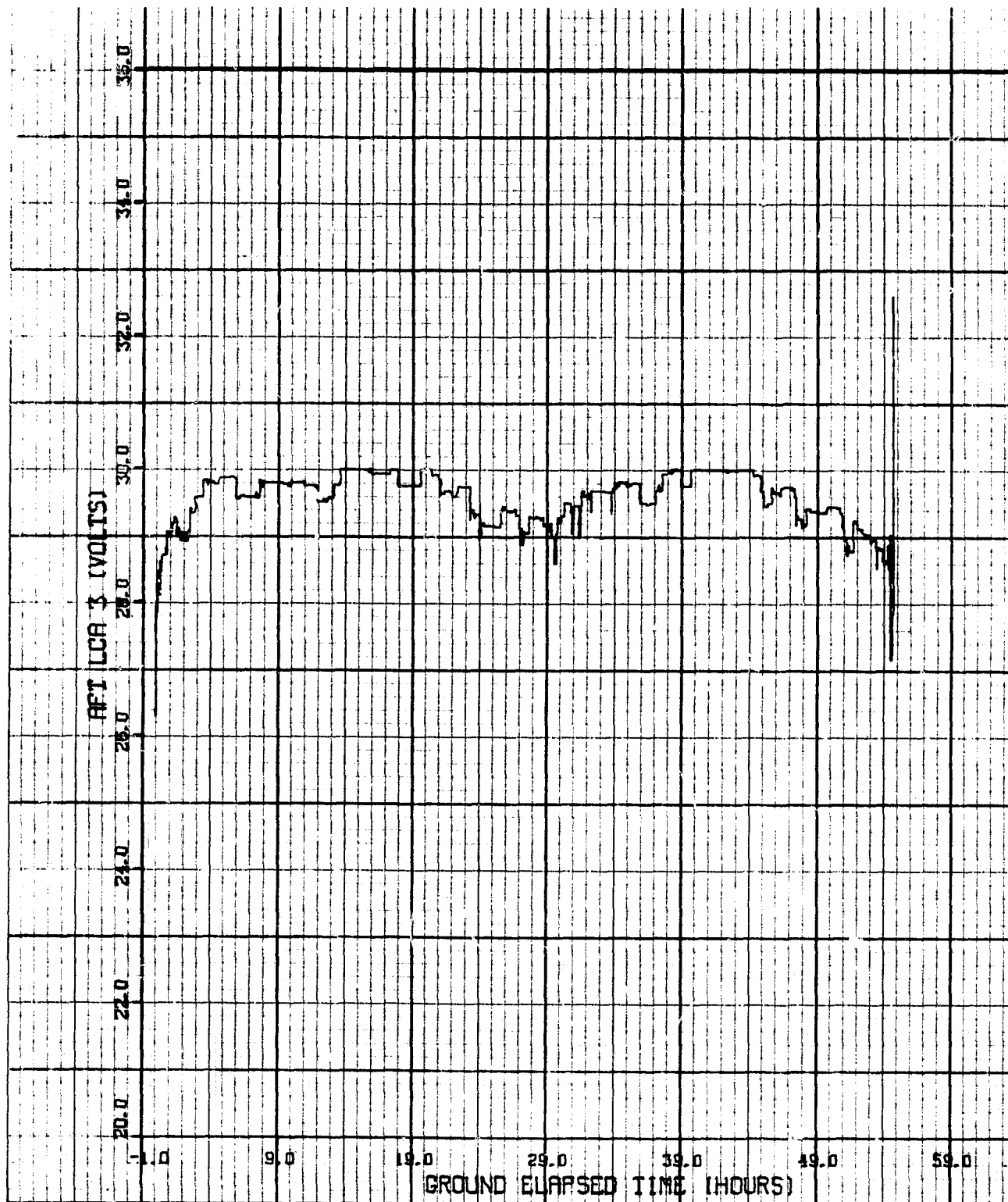


Figure 6.1-24.- ALC 3 voltage

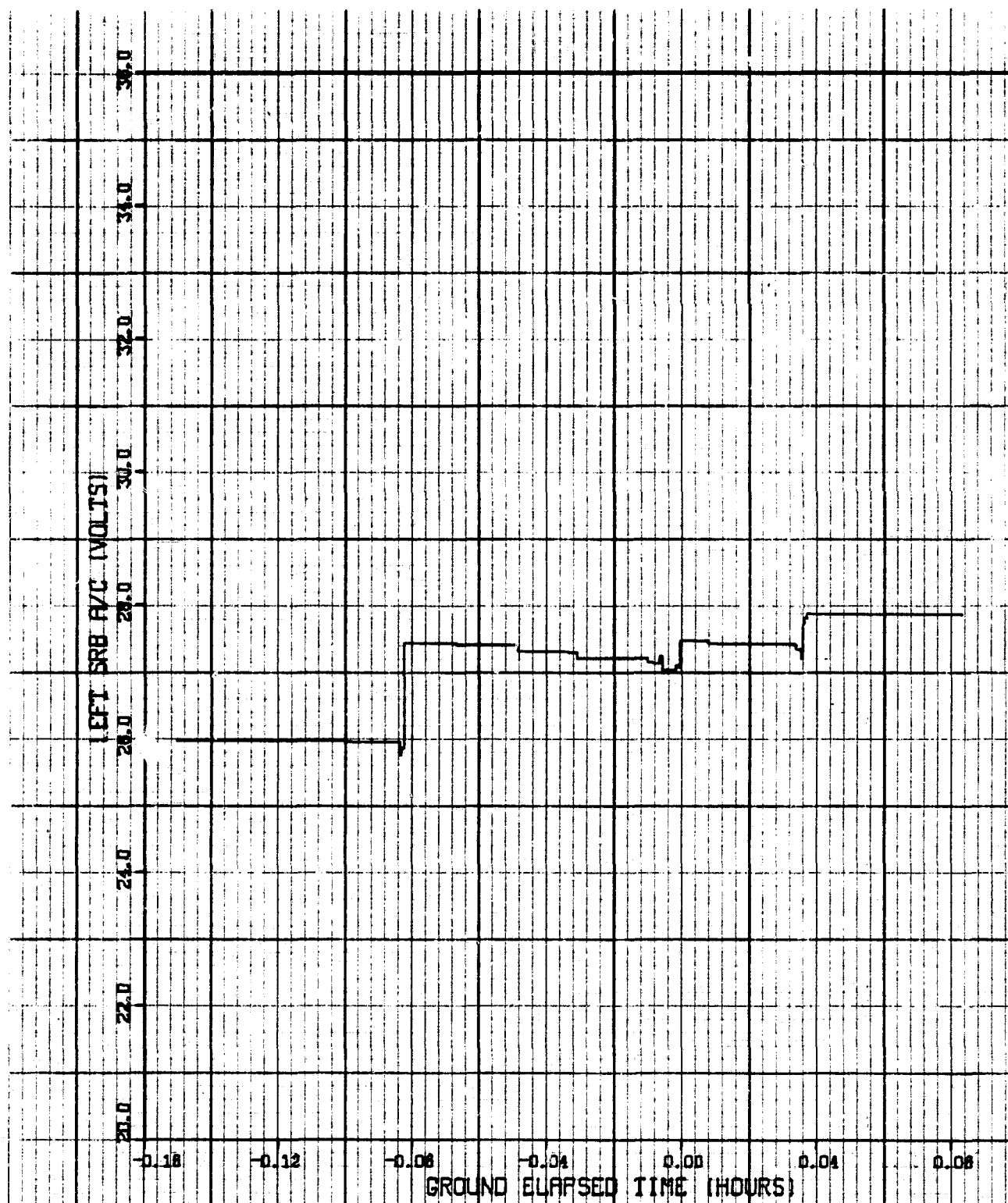


Figure 6.1-25.- Left SRB A/C voltage

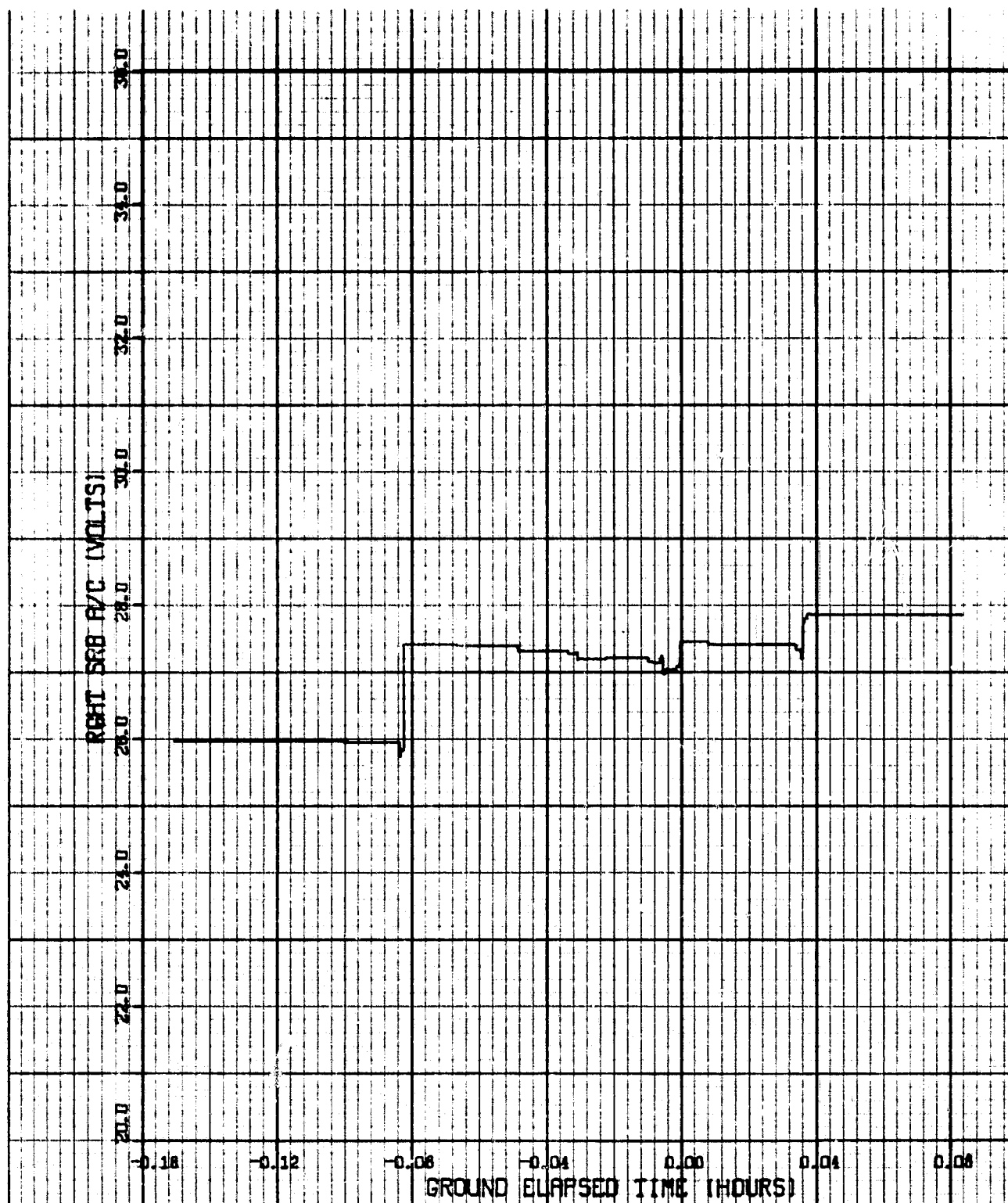


Figure 6.1-26.- Right SRB A/C voltage

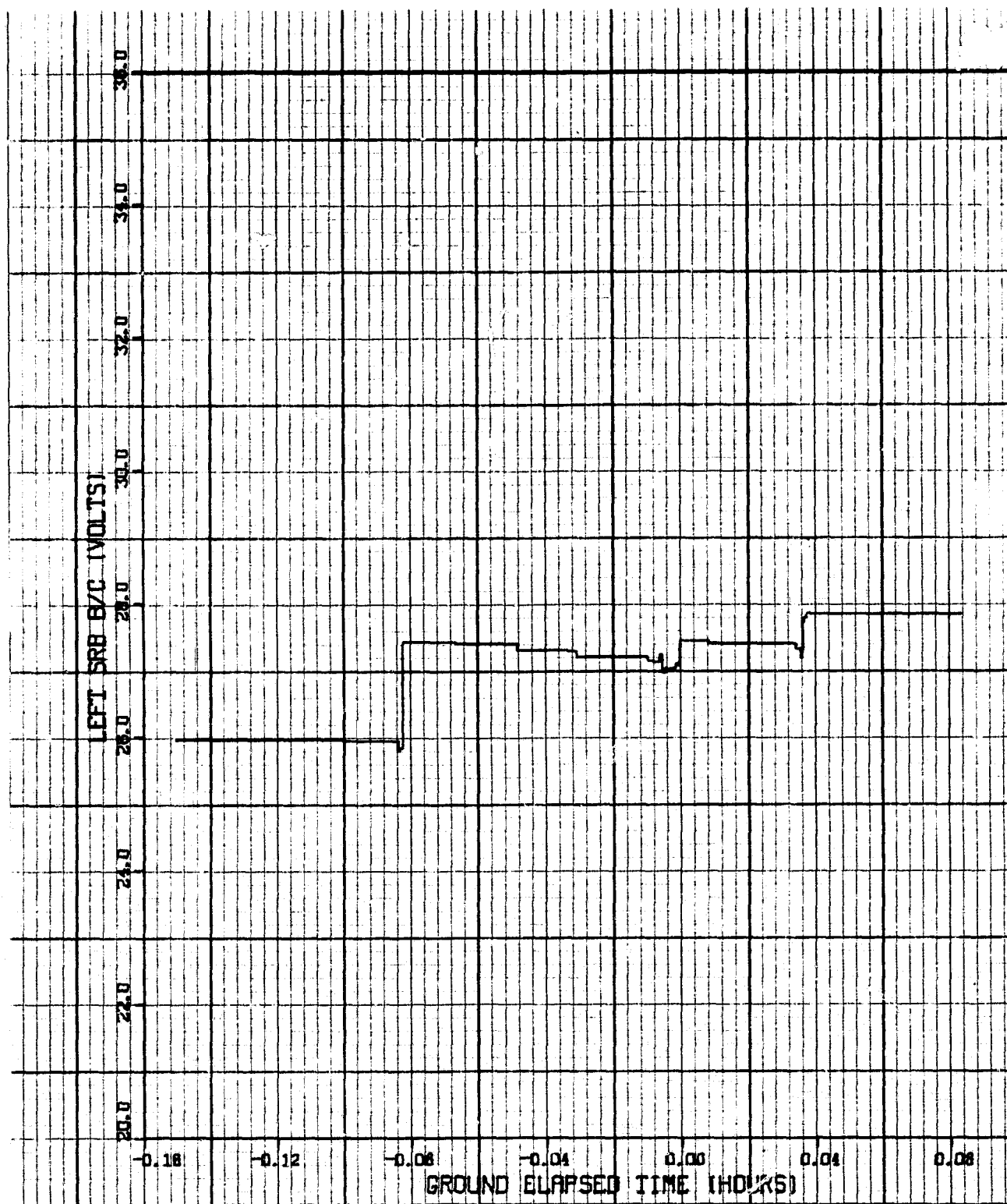


Figure 6.1-27.- Left SRB B/C voltage

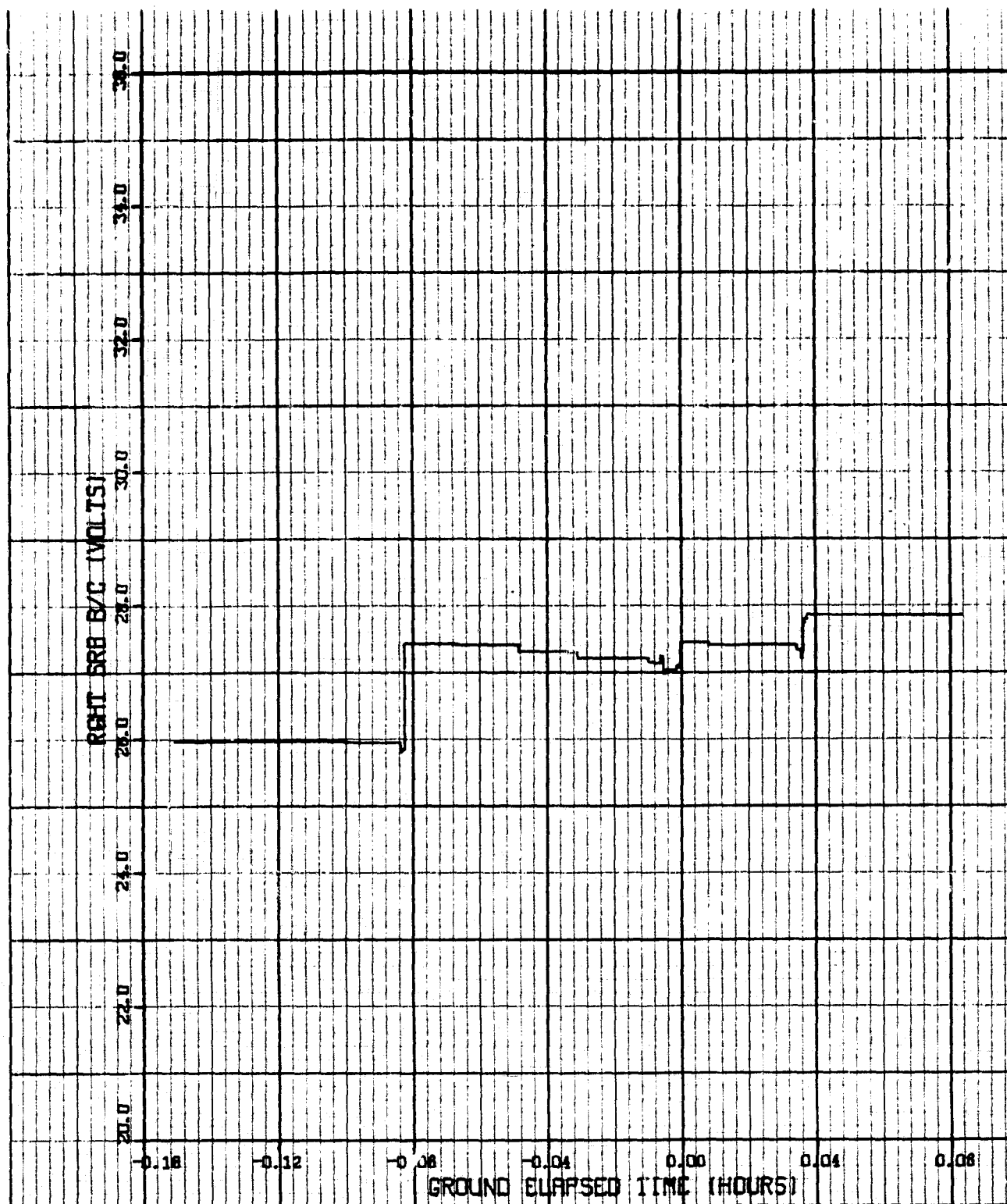


Figure 6.1-28.- Right SRB B/C voltage

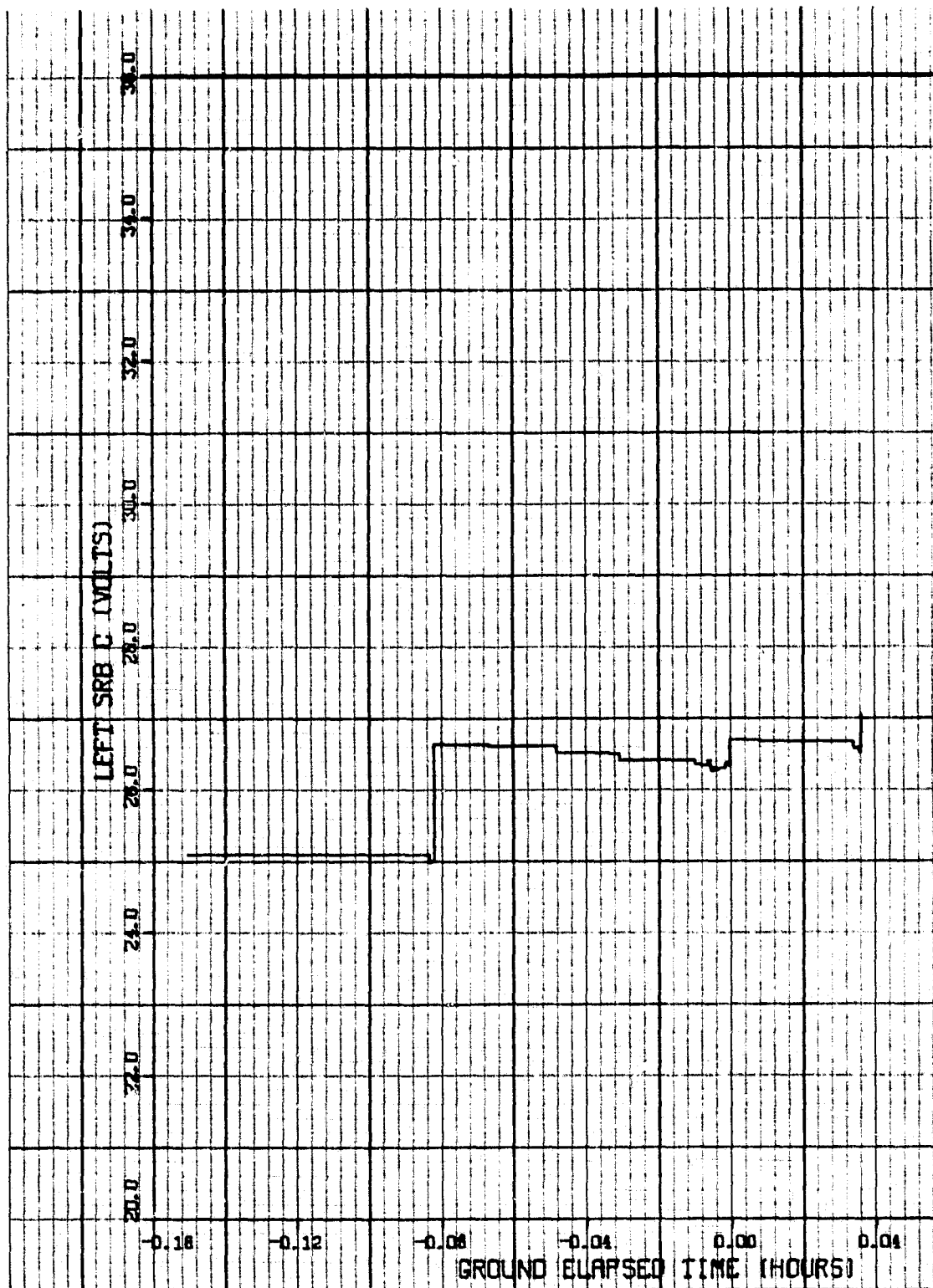


Figure 6.1-29.- Left SRB C voltage

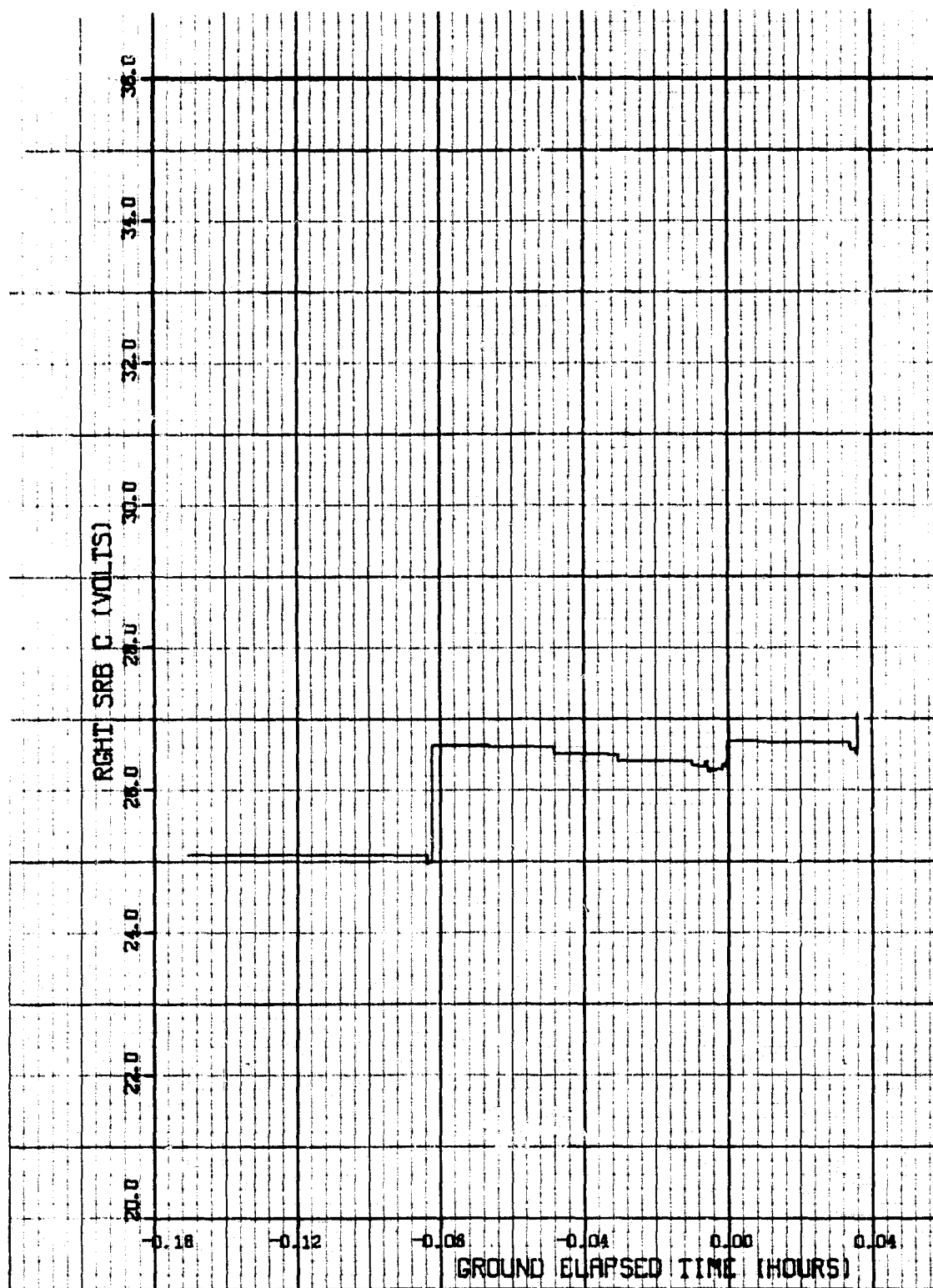


Figure 6.1-30.- Right SRB C voltage

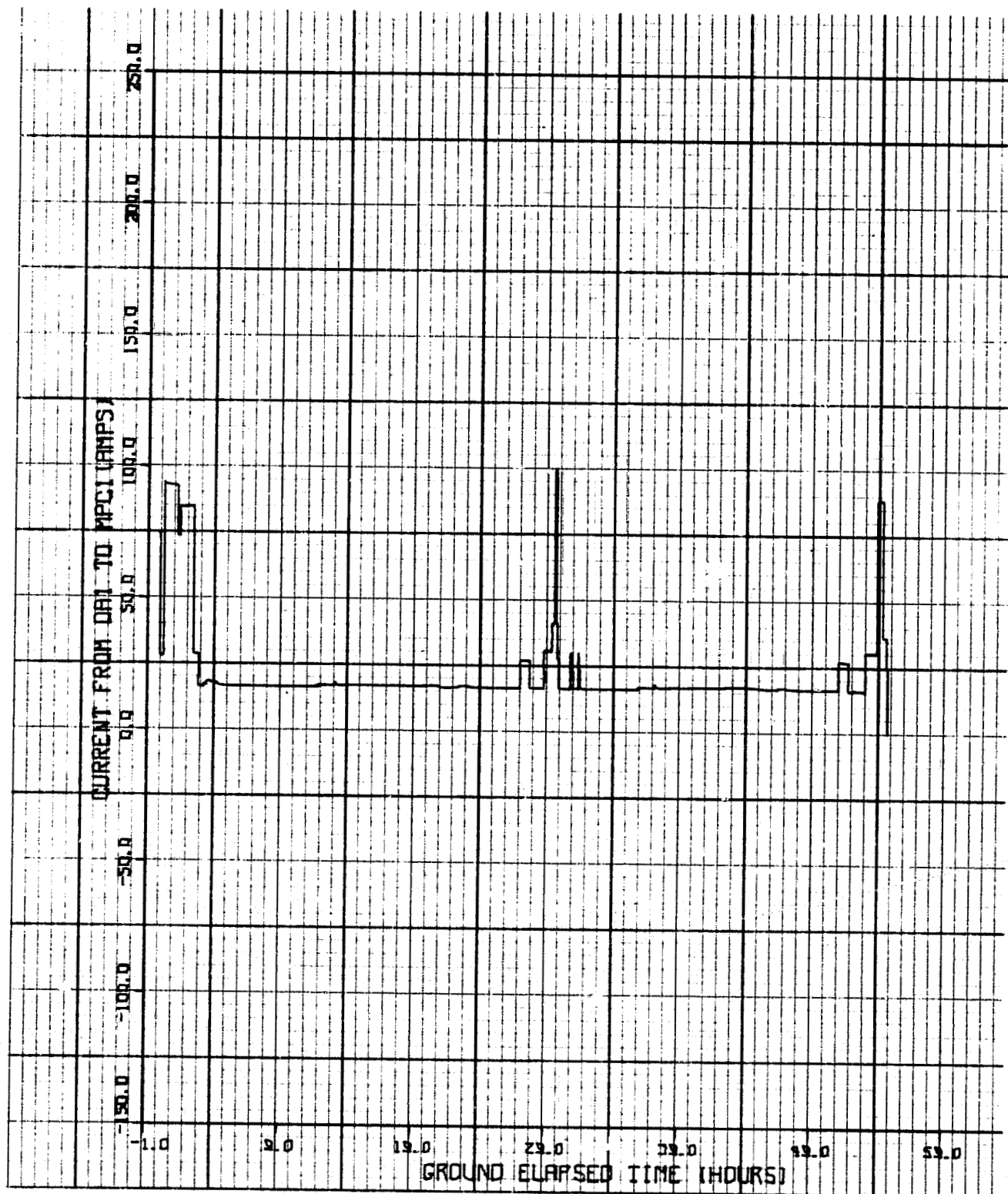


Figure 6.1-31.- Current from DA 1 to MPC 1

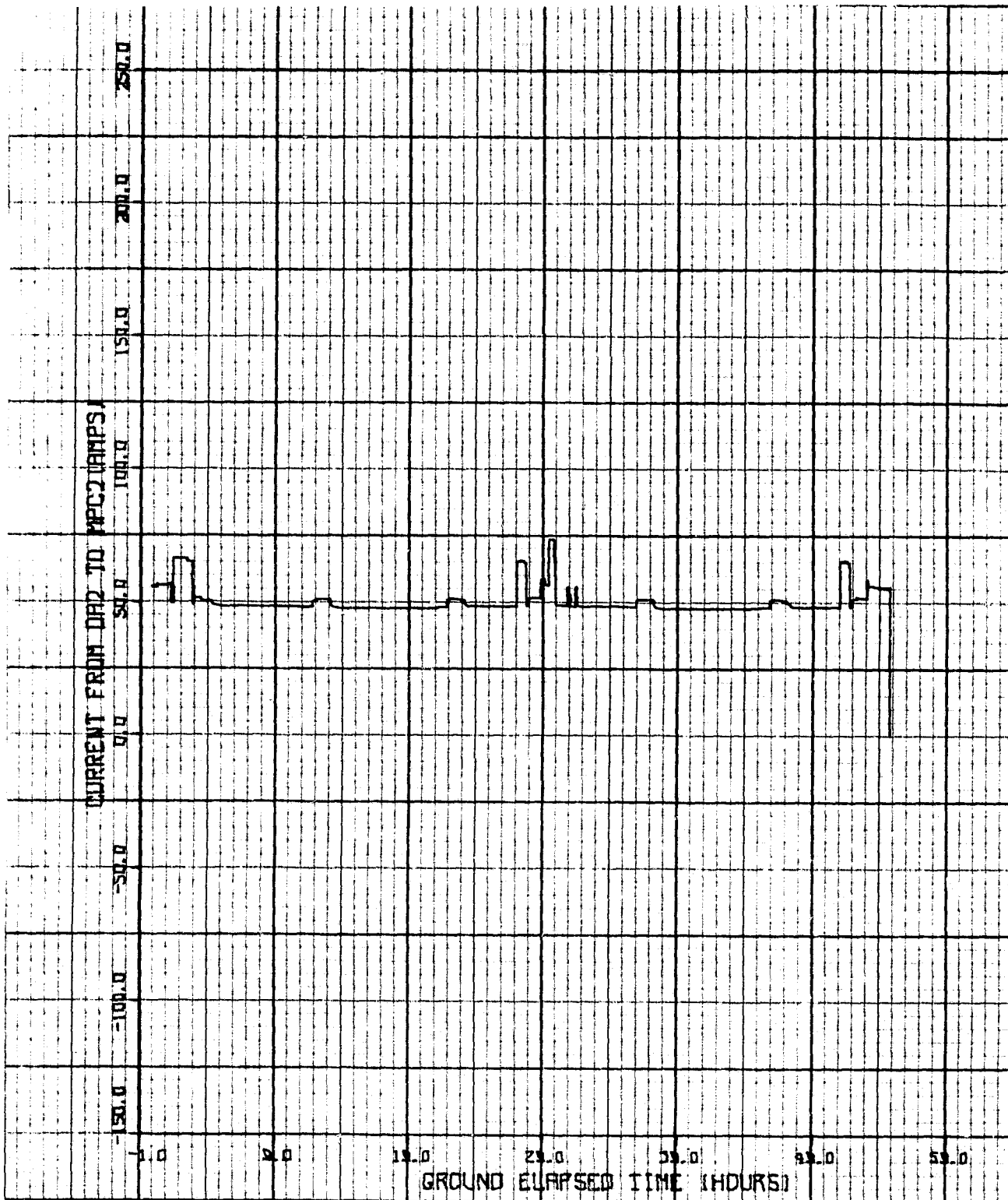


Figure 6.1-32.- Current from DA 2 to MPC 2

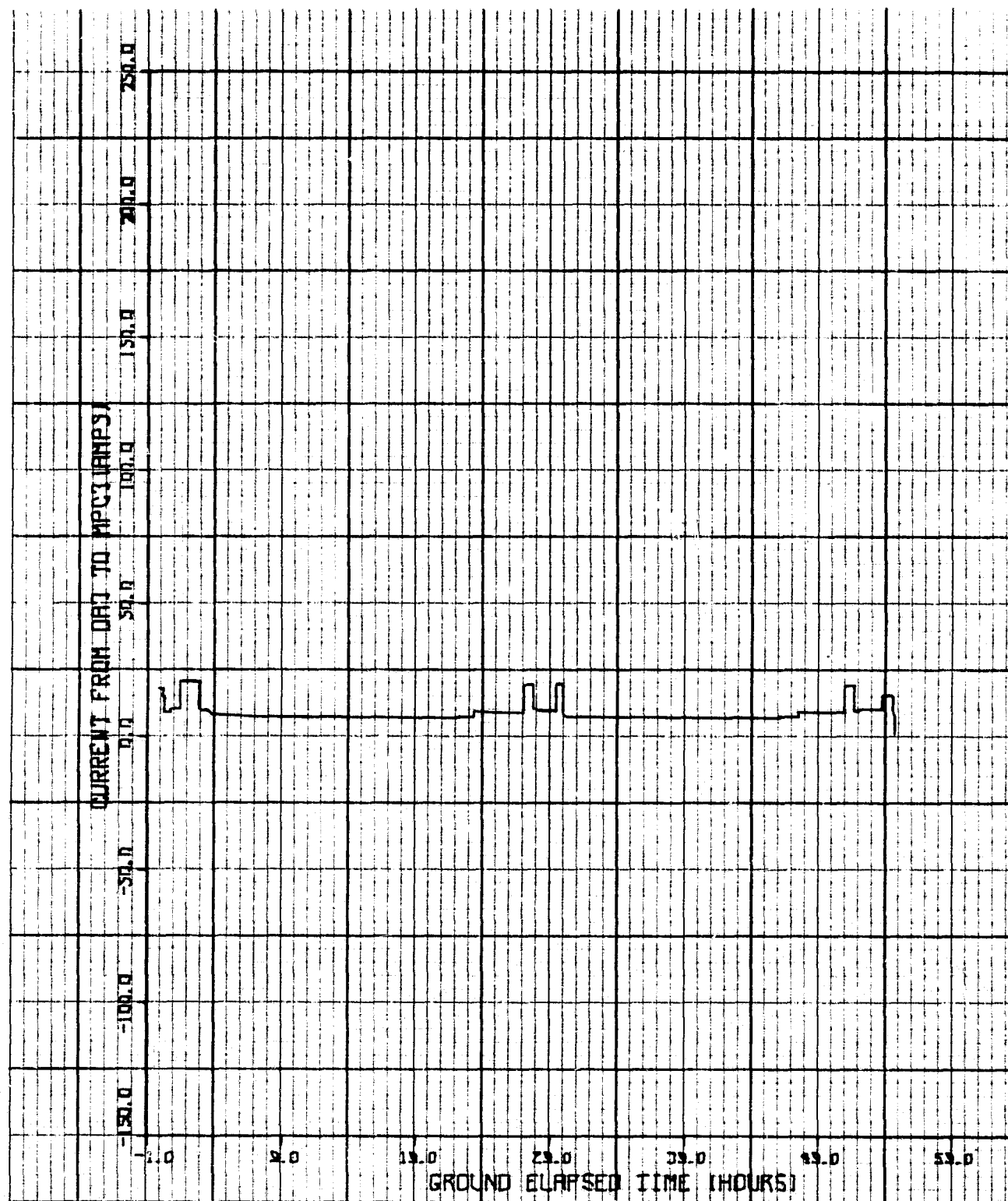


Figure 6.1-33.- Current from DA 3 to MPC 3

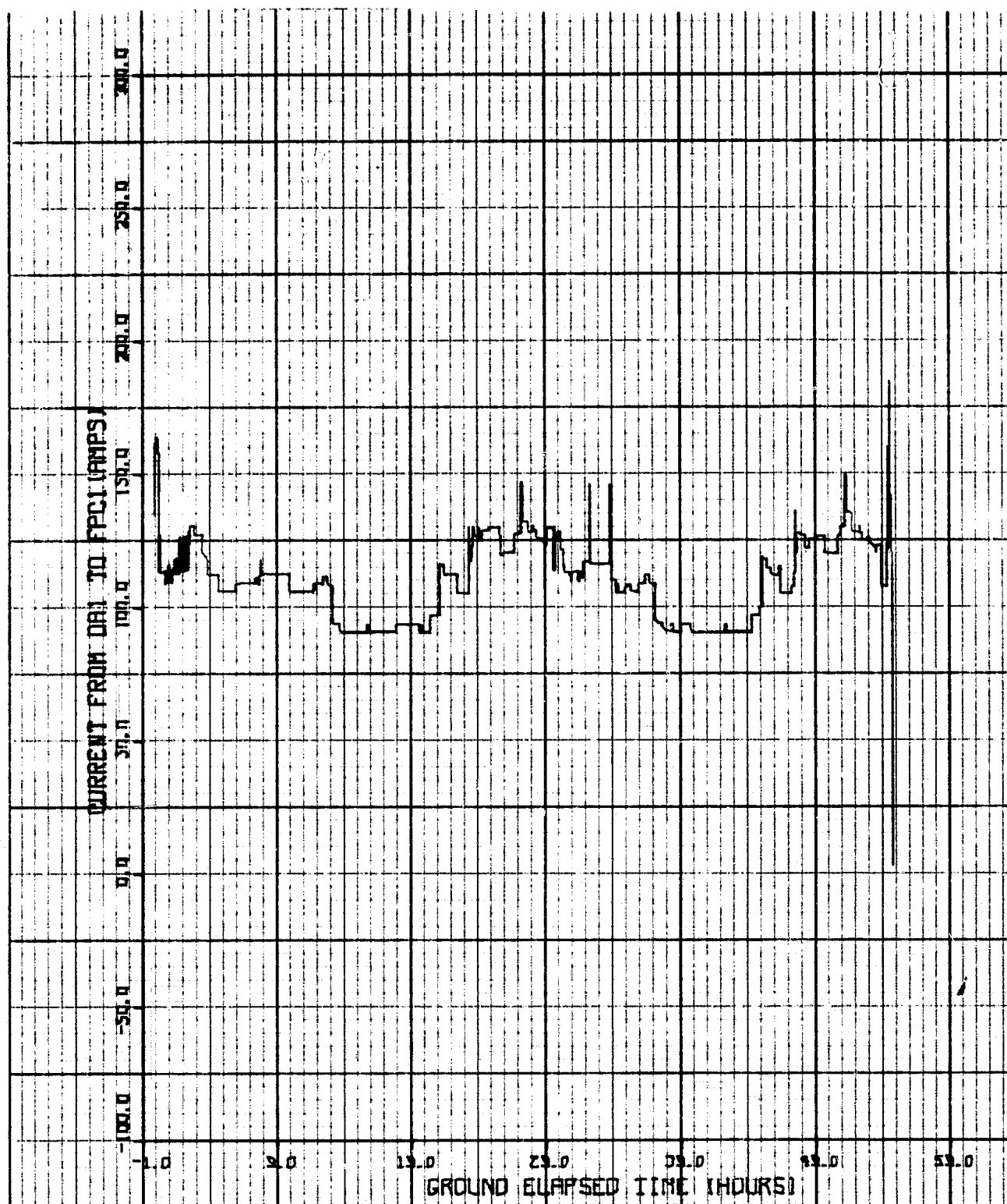


Figure 6.1-34.- Current from DA 1 to FPC 1

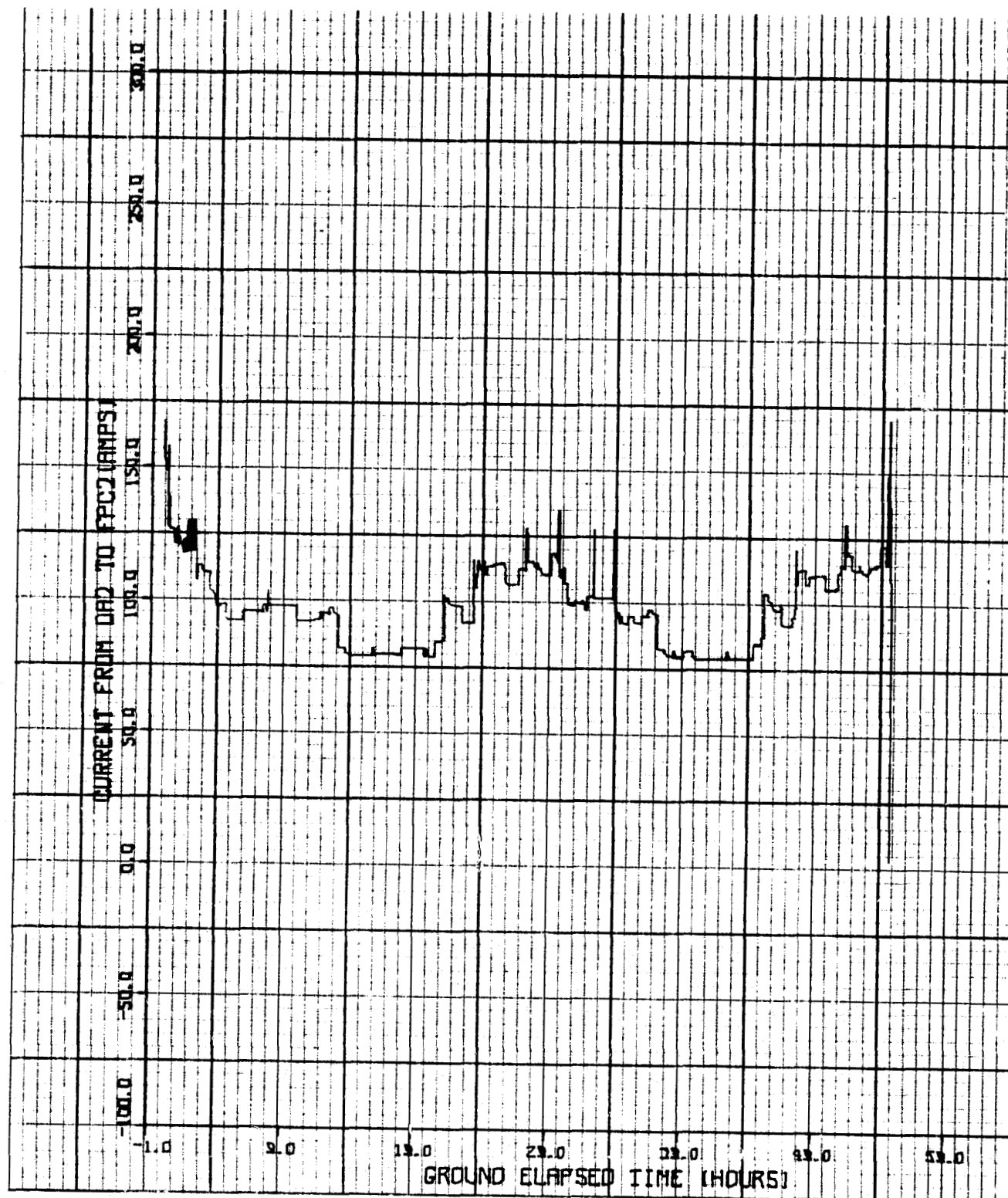


Figure 6.1-35.- Current from DA 2 to FPC 2

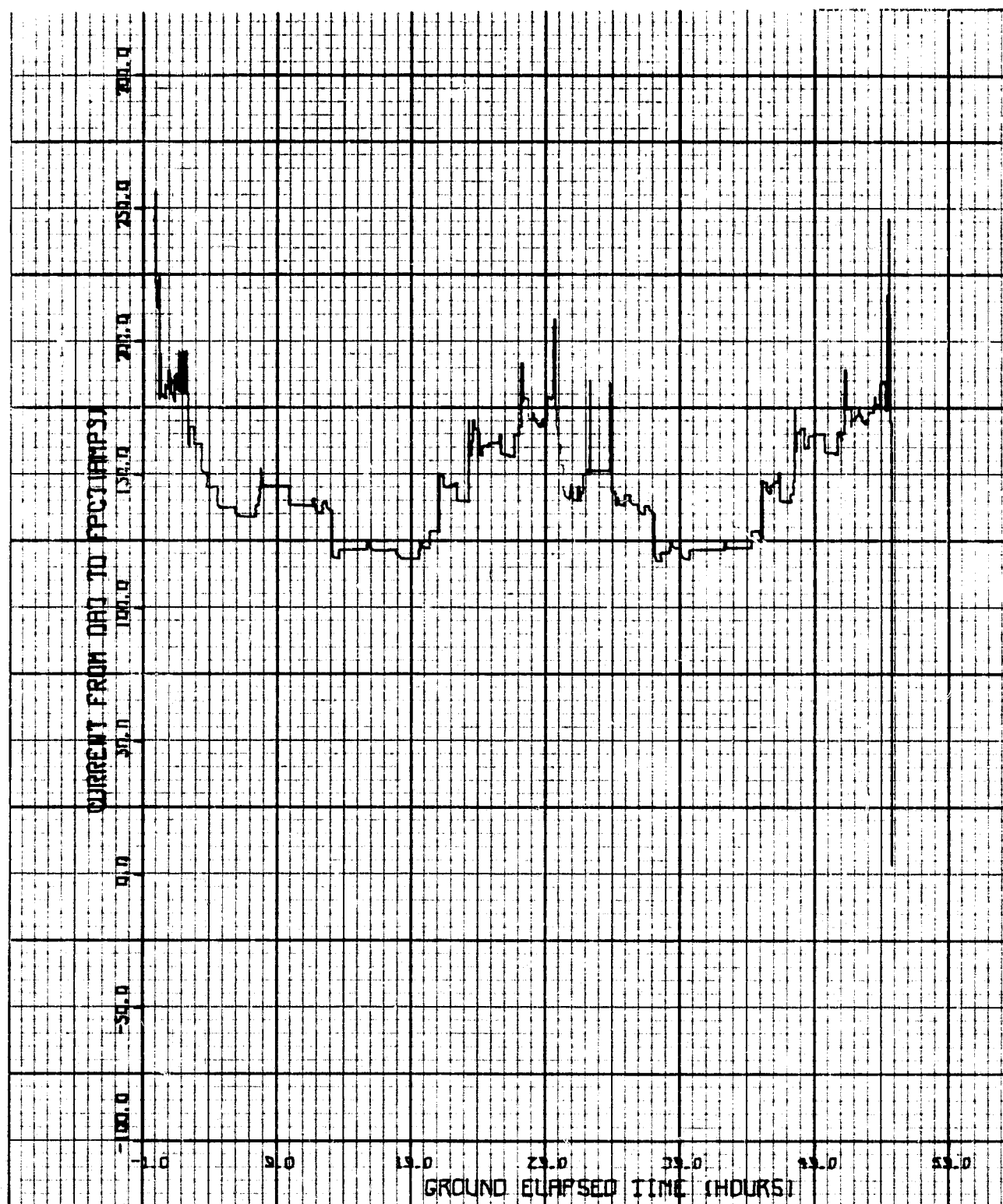


Figure 6.1-36.- Current from DA 3 to FPC 3

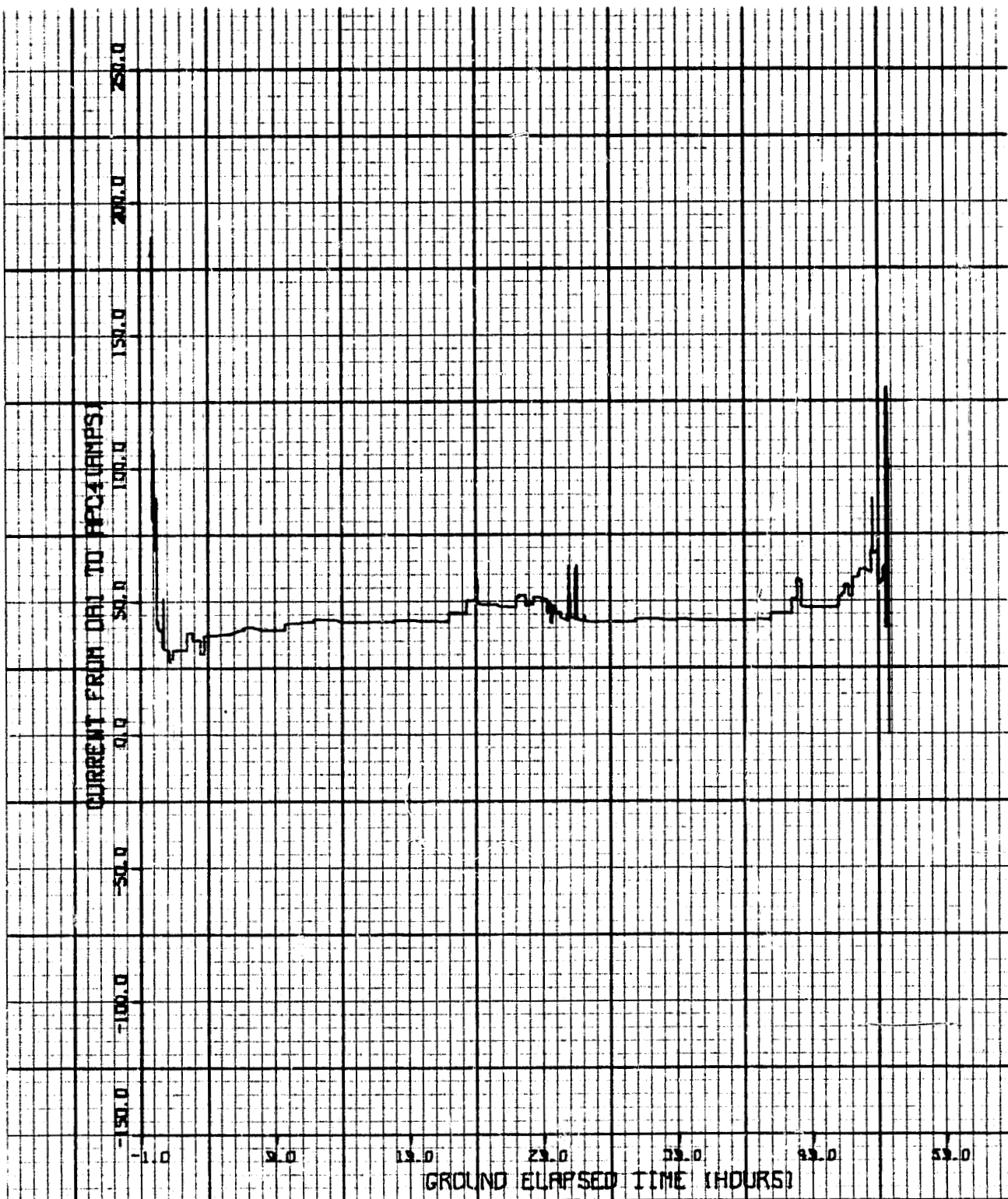


Figure 6.1-37.- Current from DA 1 to APC 4

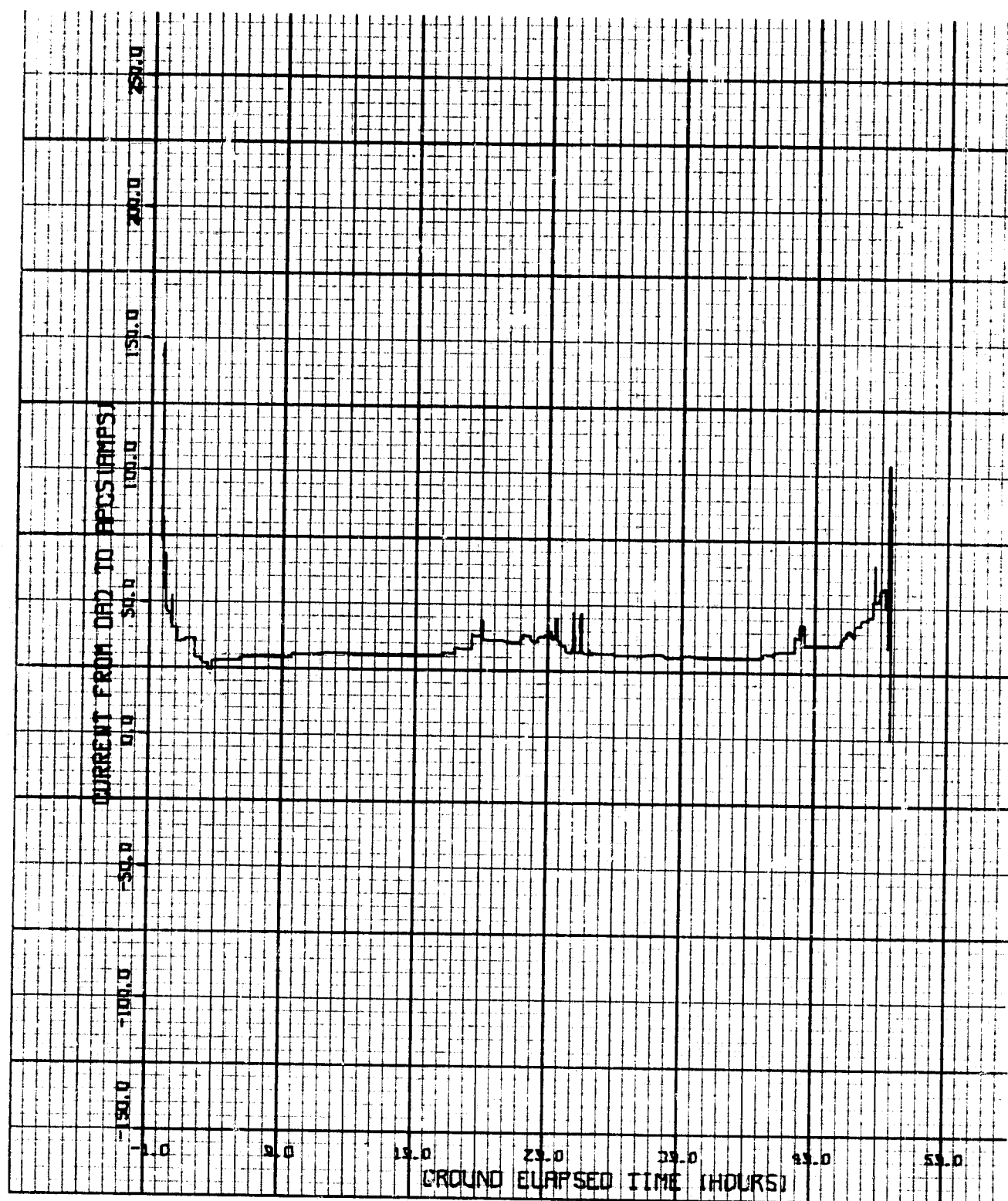


Figure 6.1-38.- Current from DA 2 to APC 5

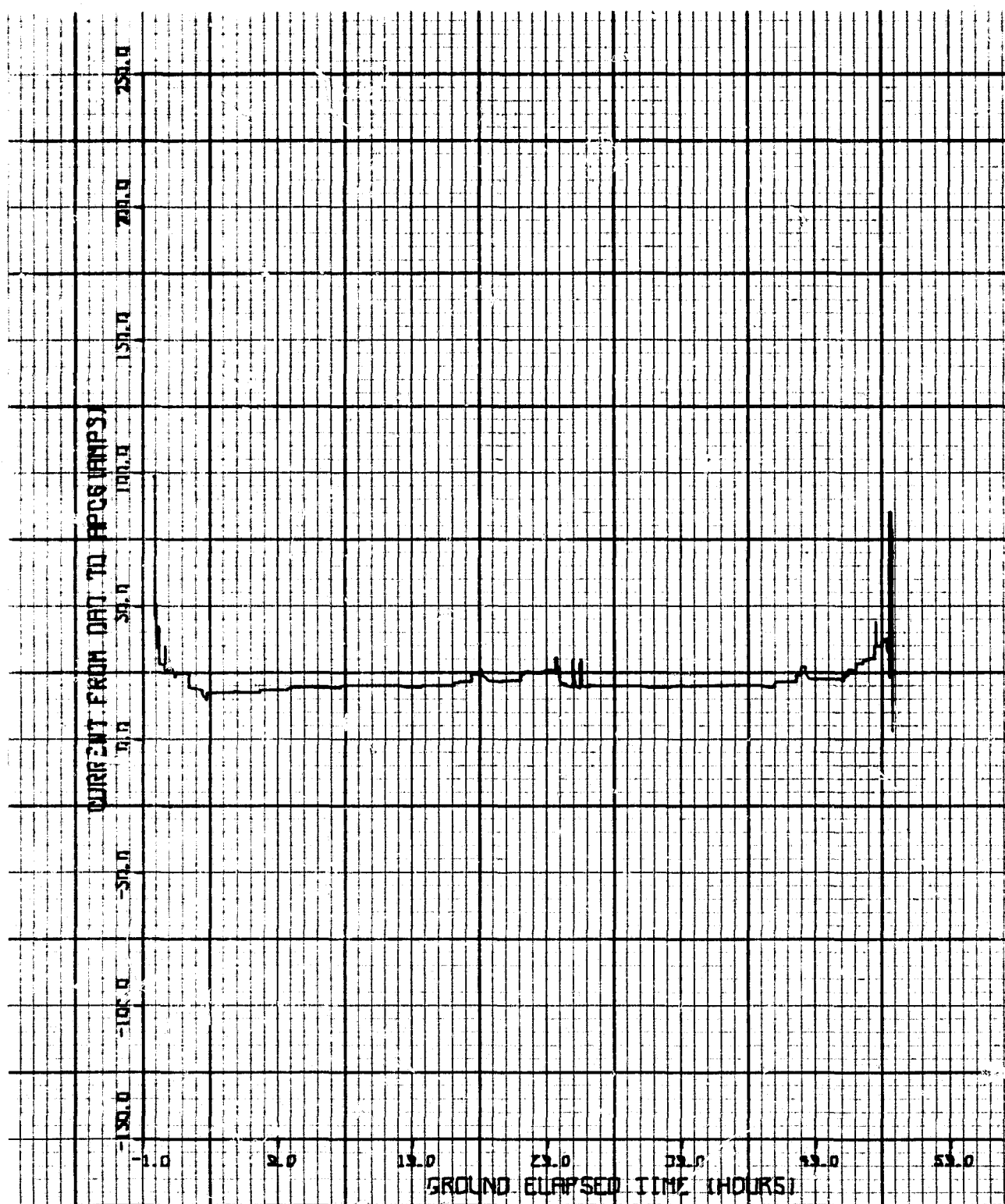


Figure 6.1-39.- Current from DA 3 to APC 6

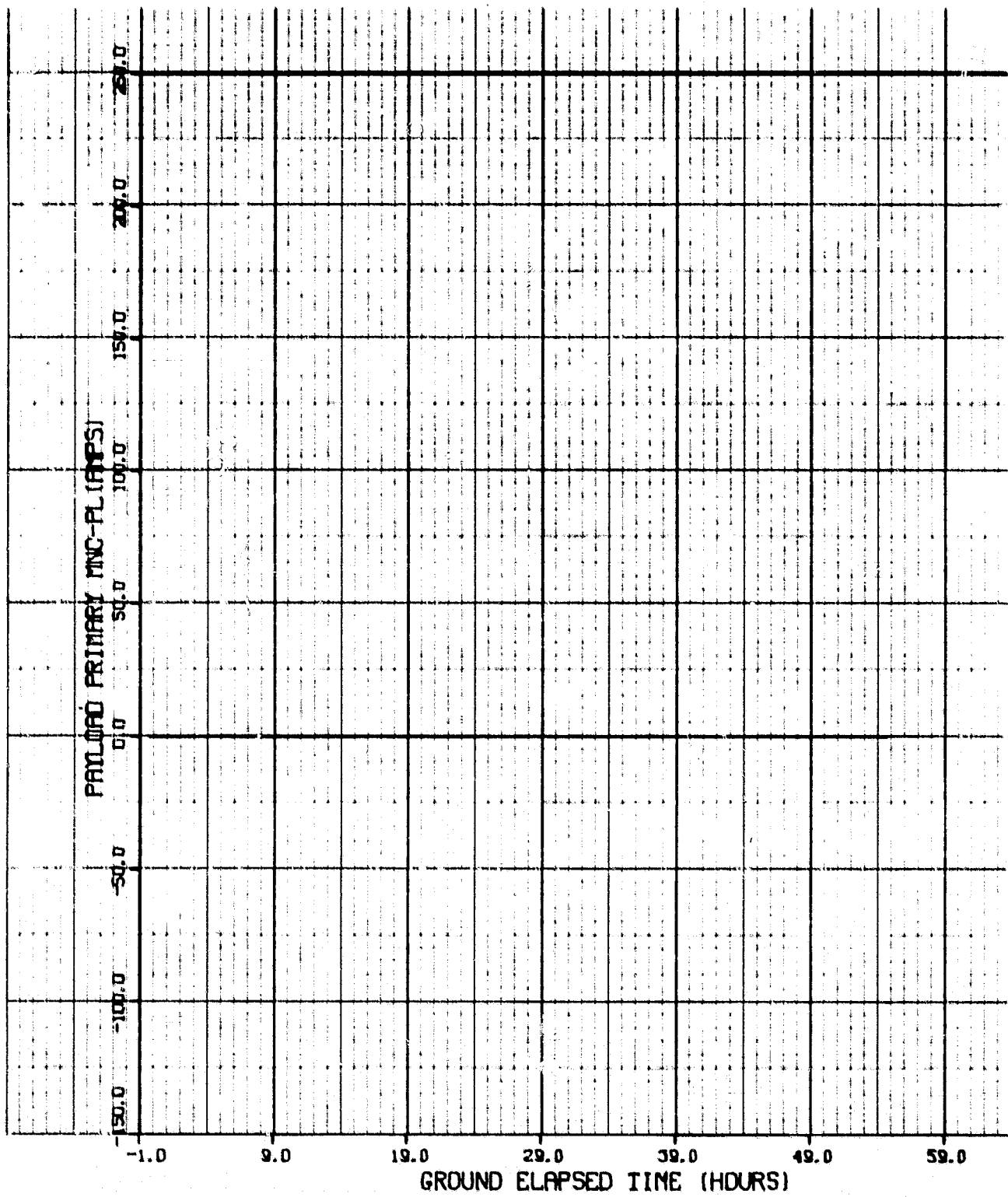


Figure 5.1-40.- Current at payload primary MNC-PL

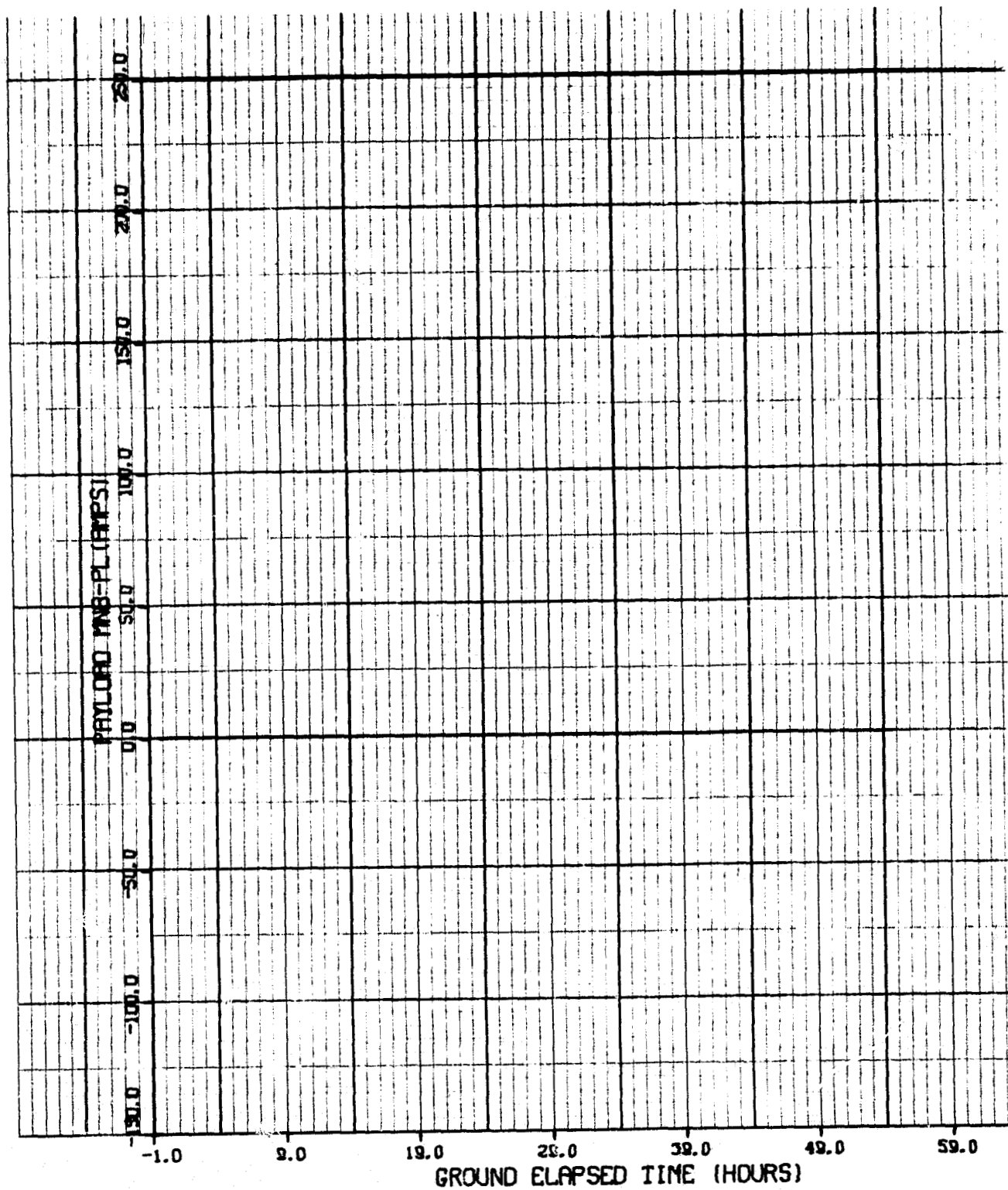


Figure 6.1-41.- Current at payload MNB-PL

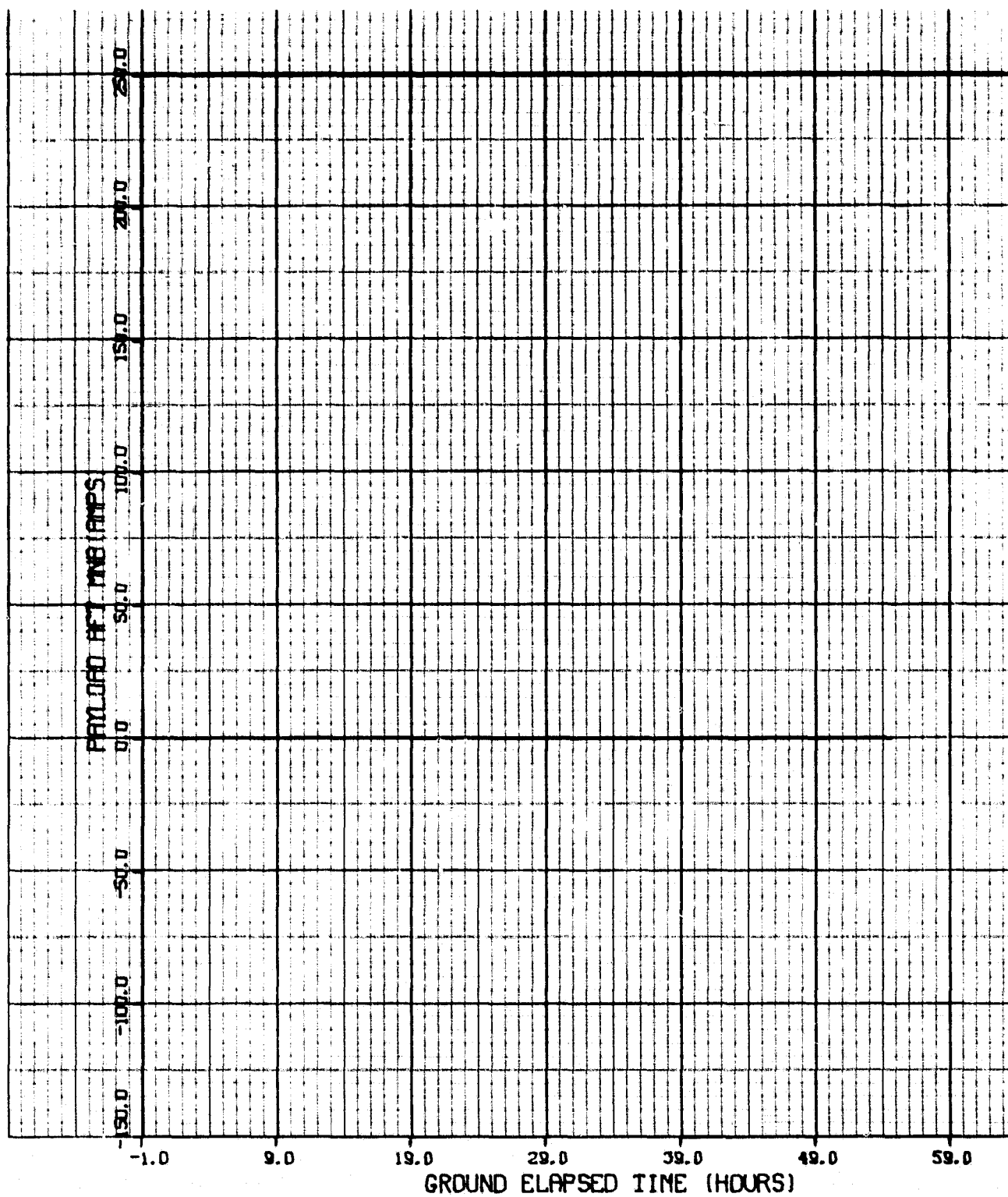


Figure 6.1-42.- Current * payload aft MNB

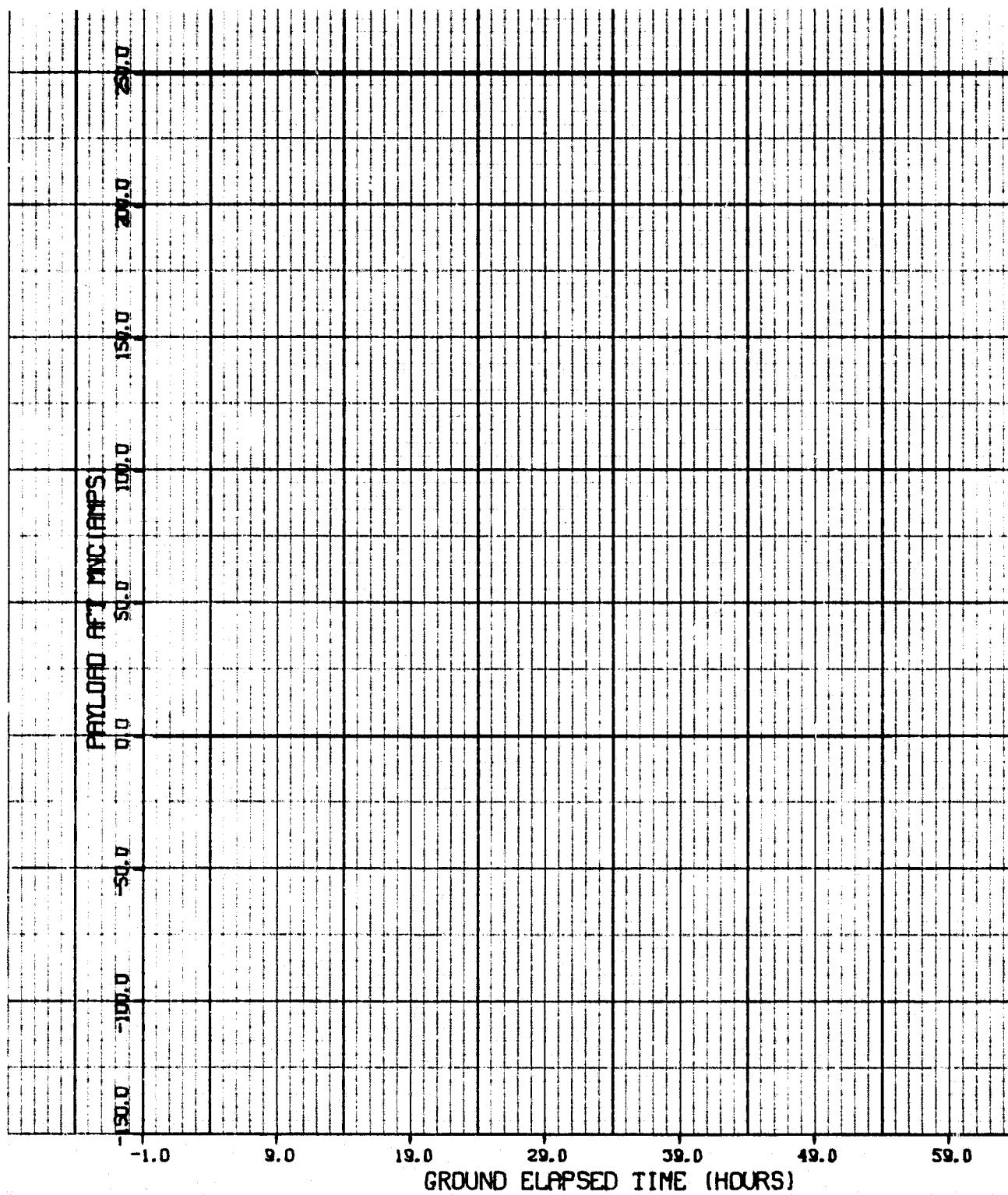


Figure 6.1-43.- Current at payload aft MNC

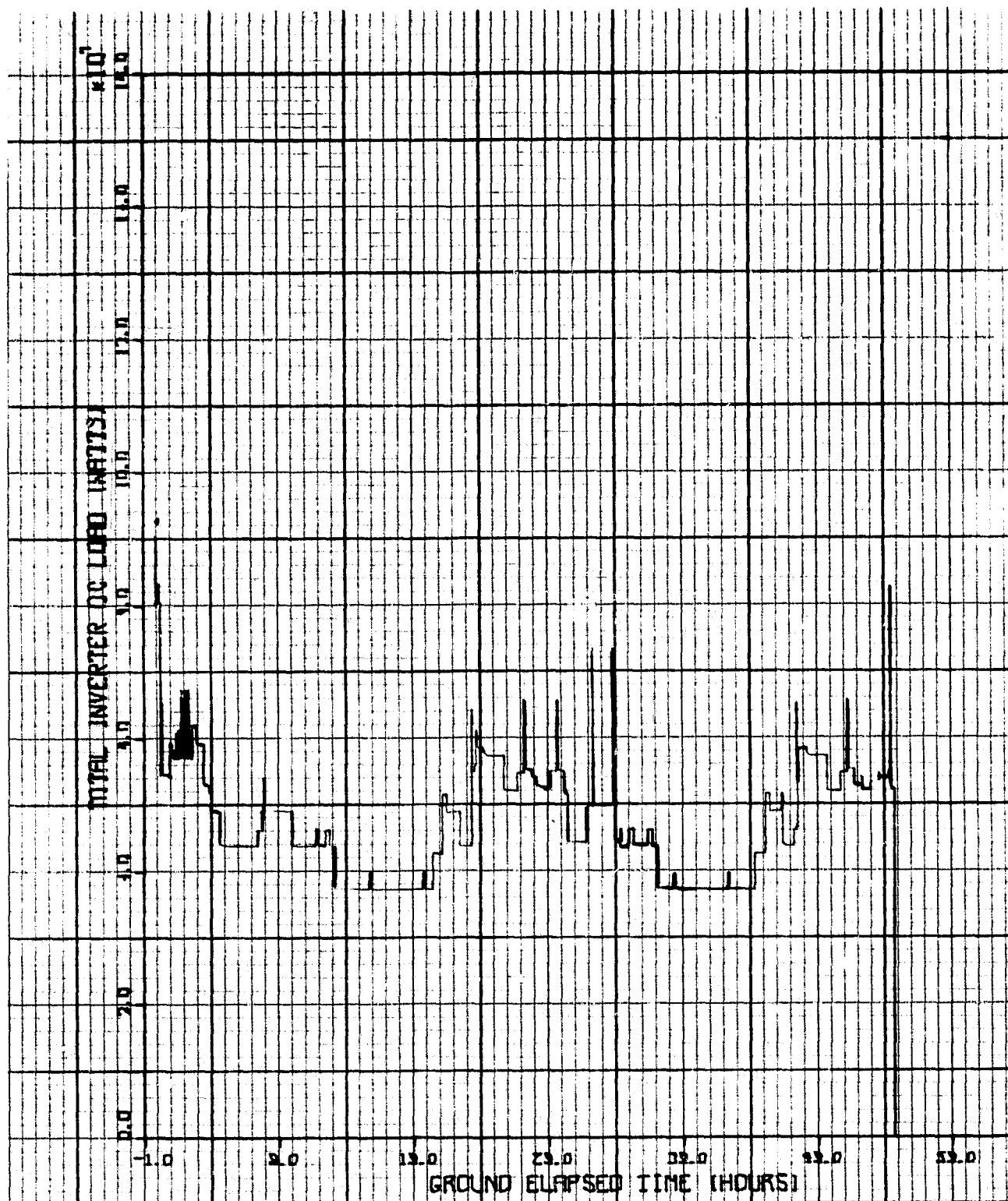


Figure 6.1-44.- Total inverter DC load

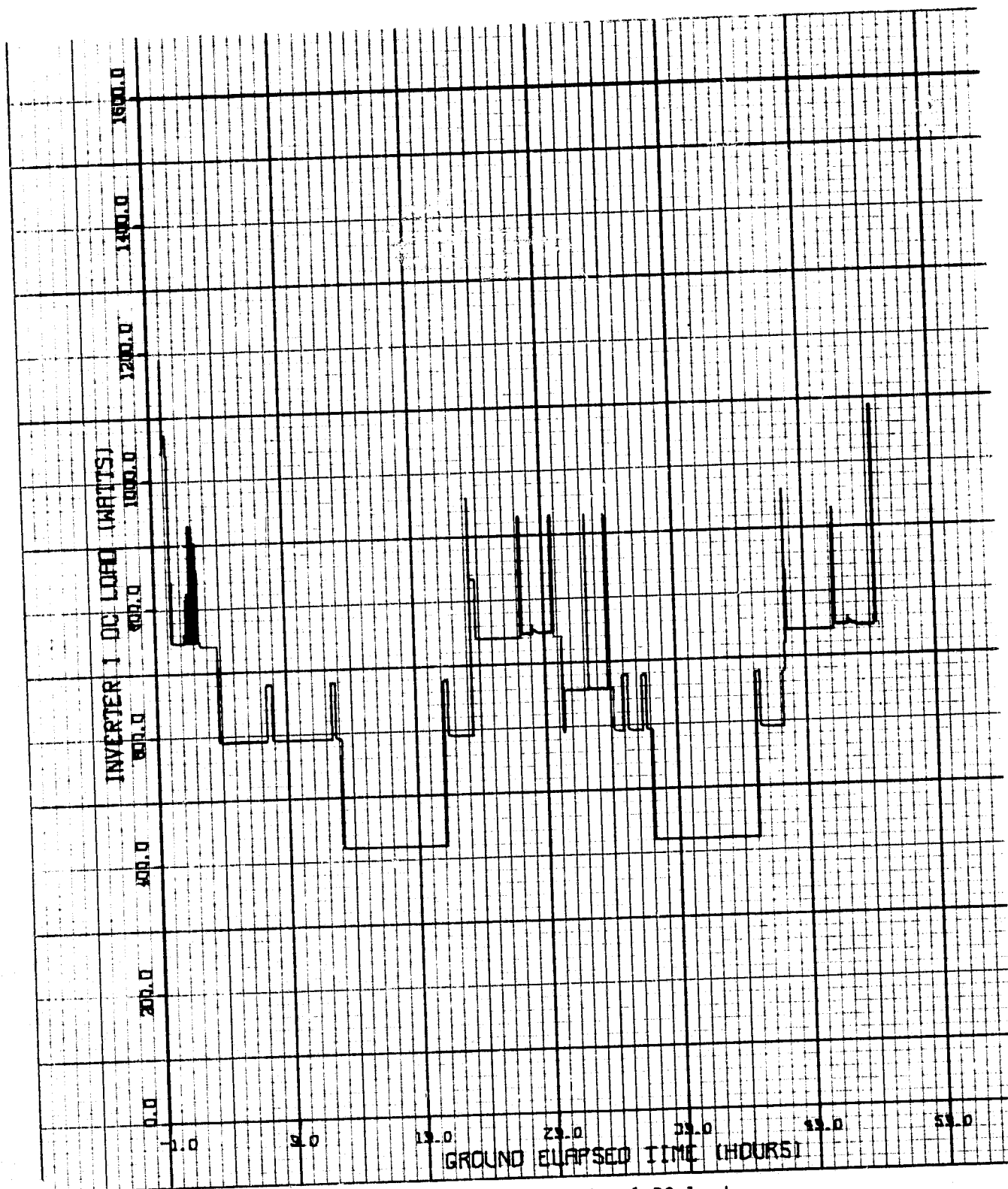


Figure 6.1-45.- Inverter 1 DC load

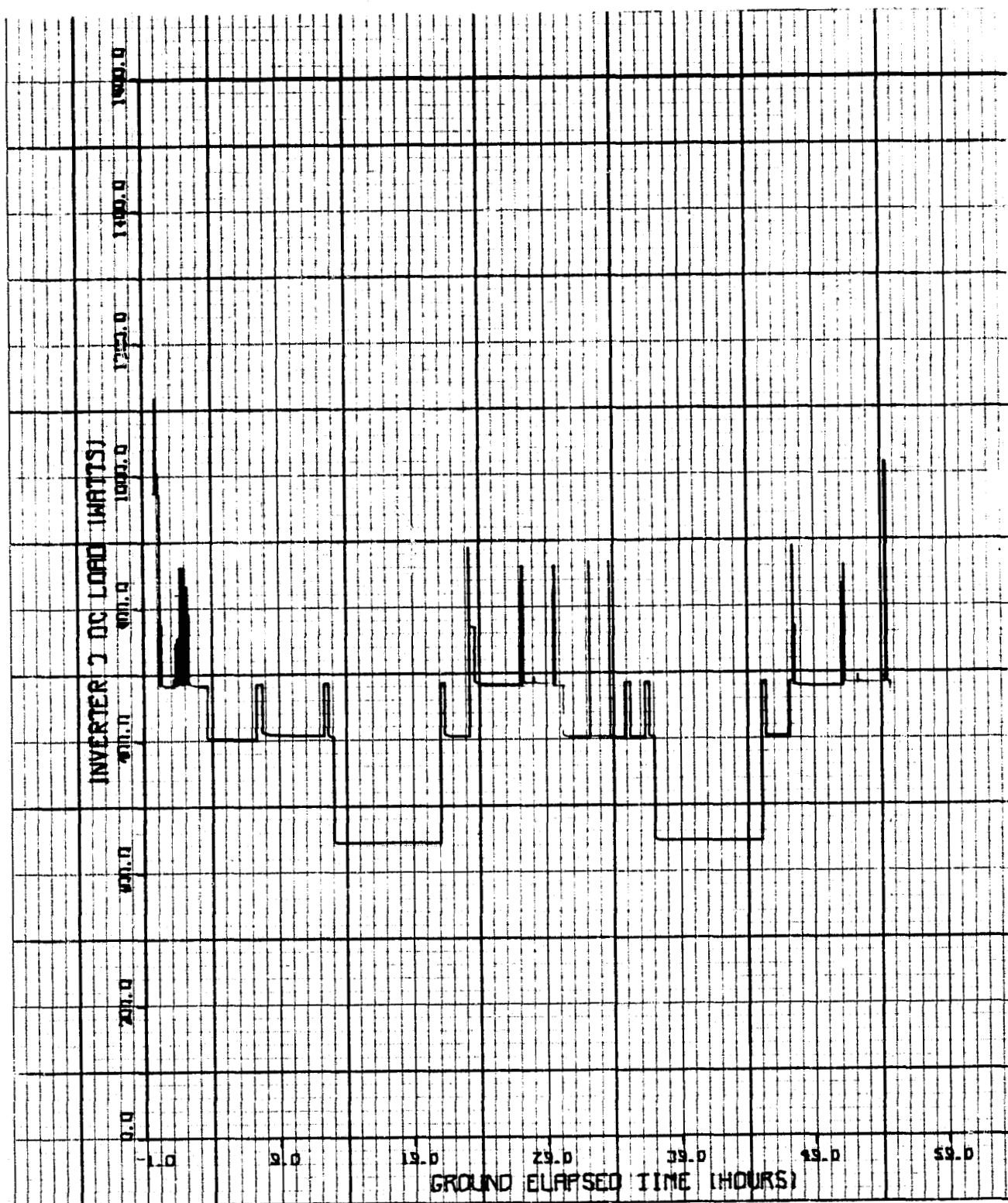


Figure 6.1-46.- Inverter 2 DC load

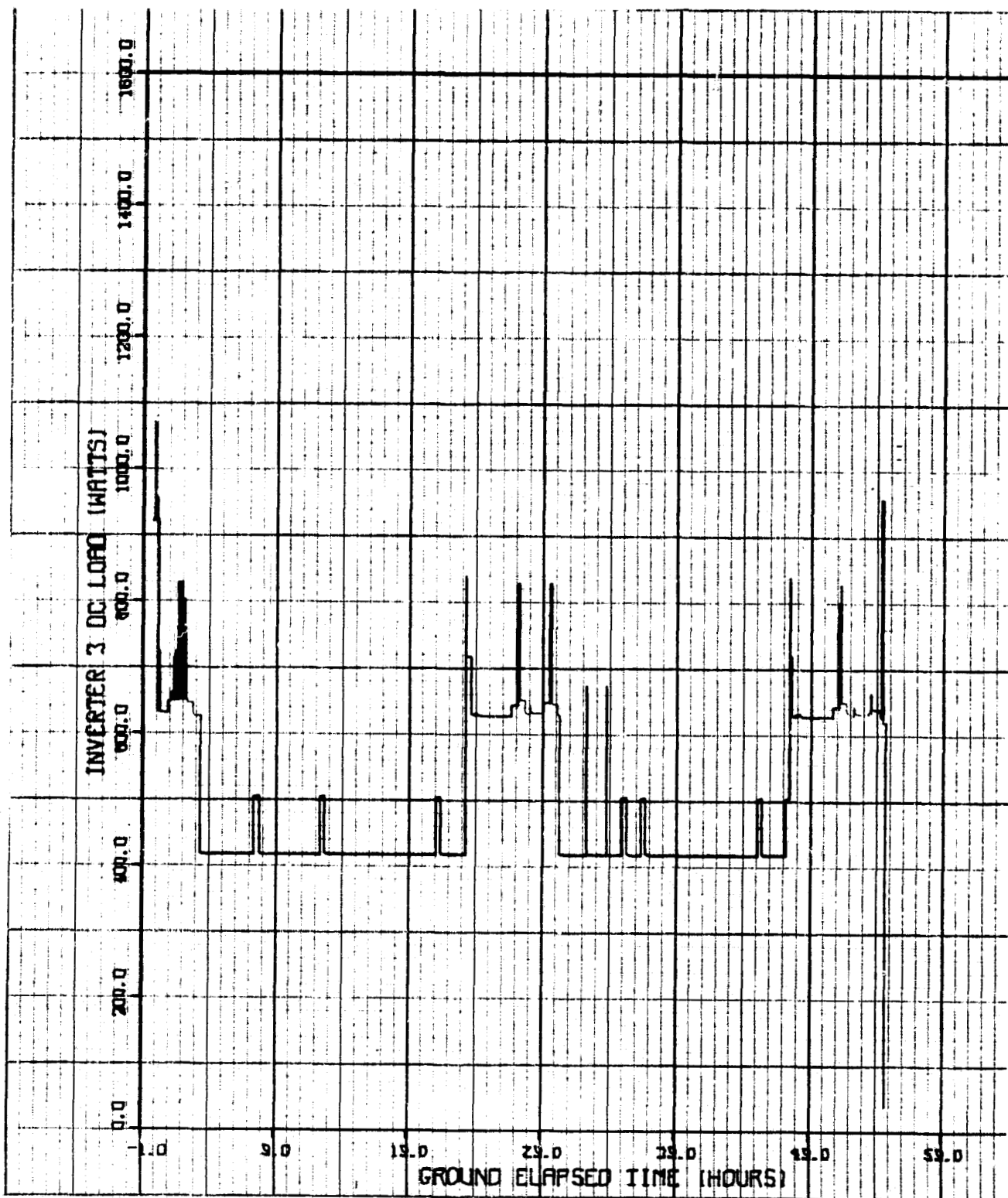


Figure 6.1-47.- Inverter 3 DC load

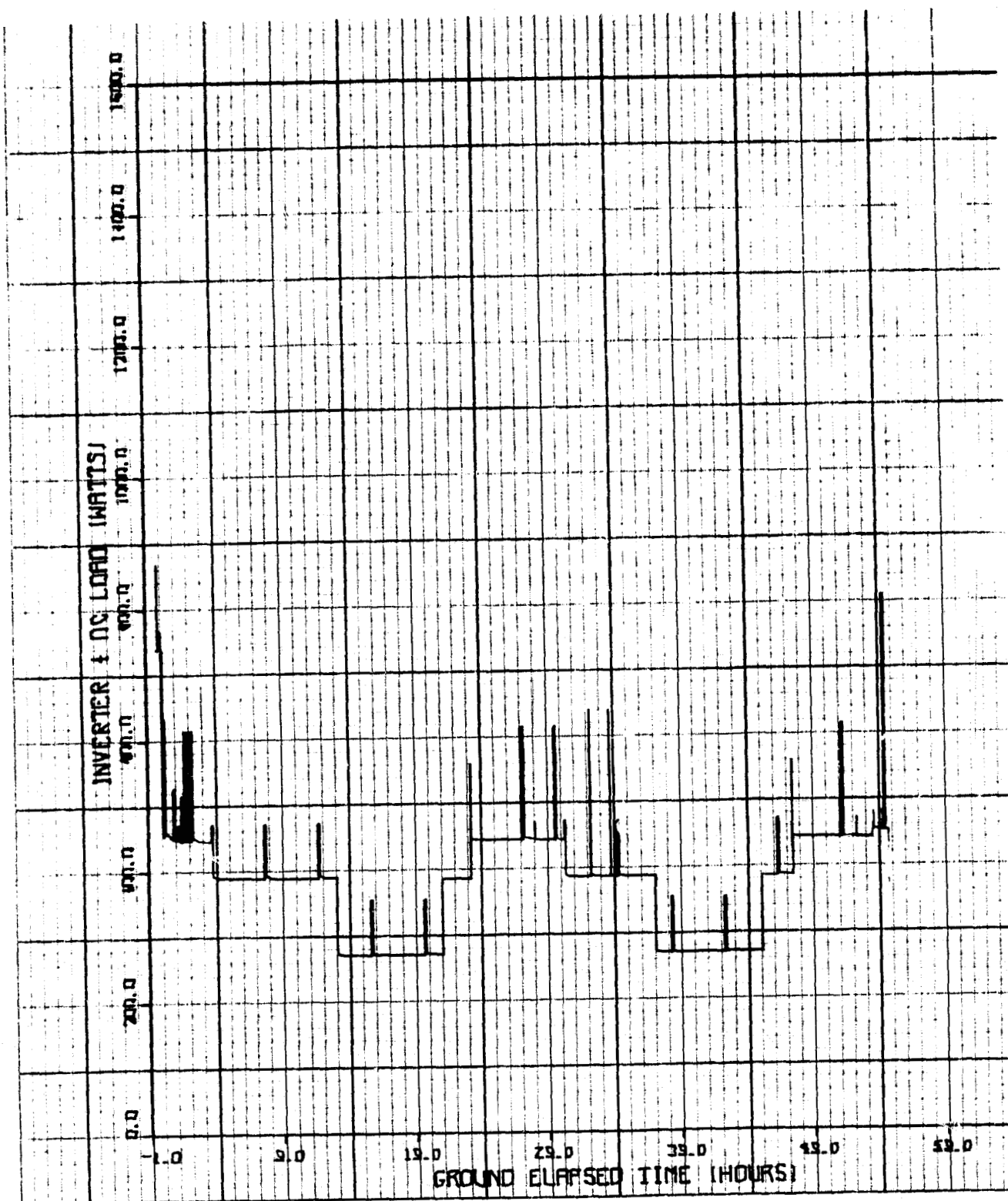


Figure 6.1-48.- Inverter 4 DC load

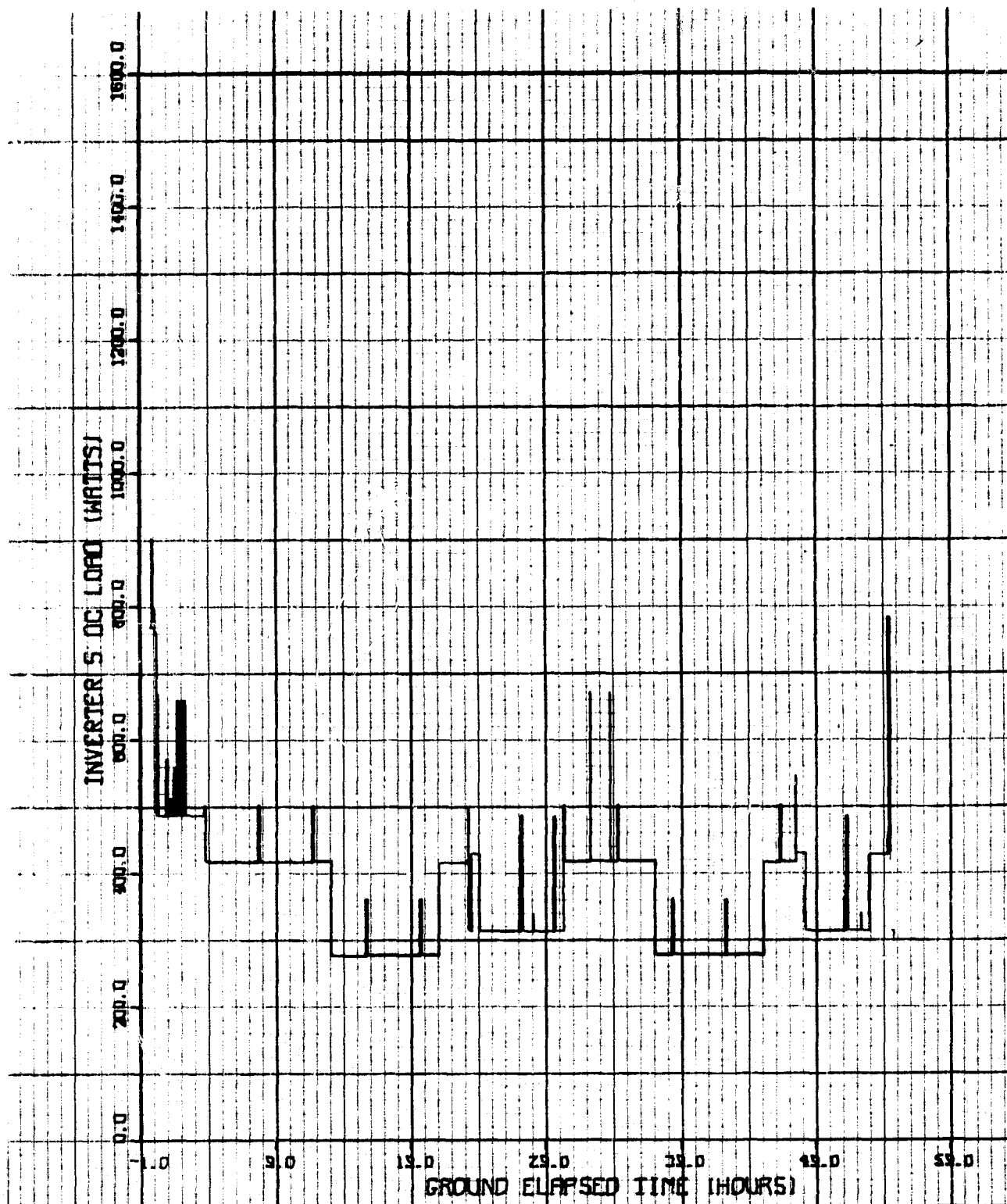


Figure 6.1-49.- Inverter 5 DC load

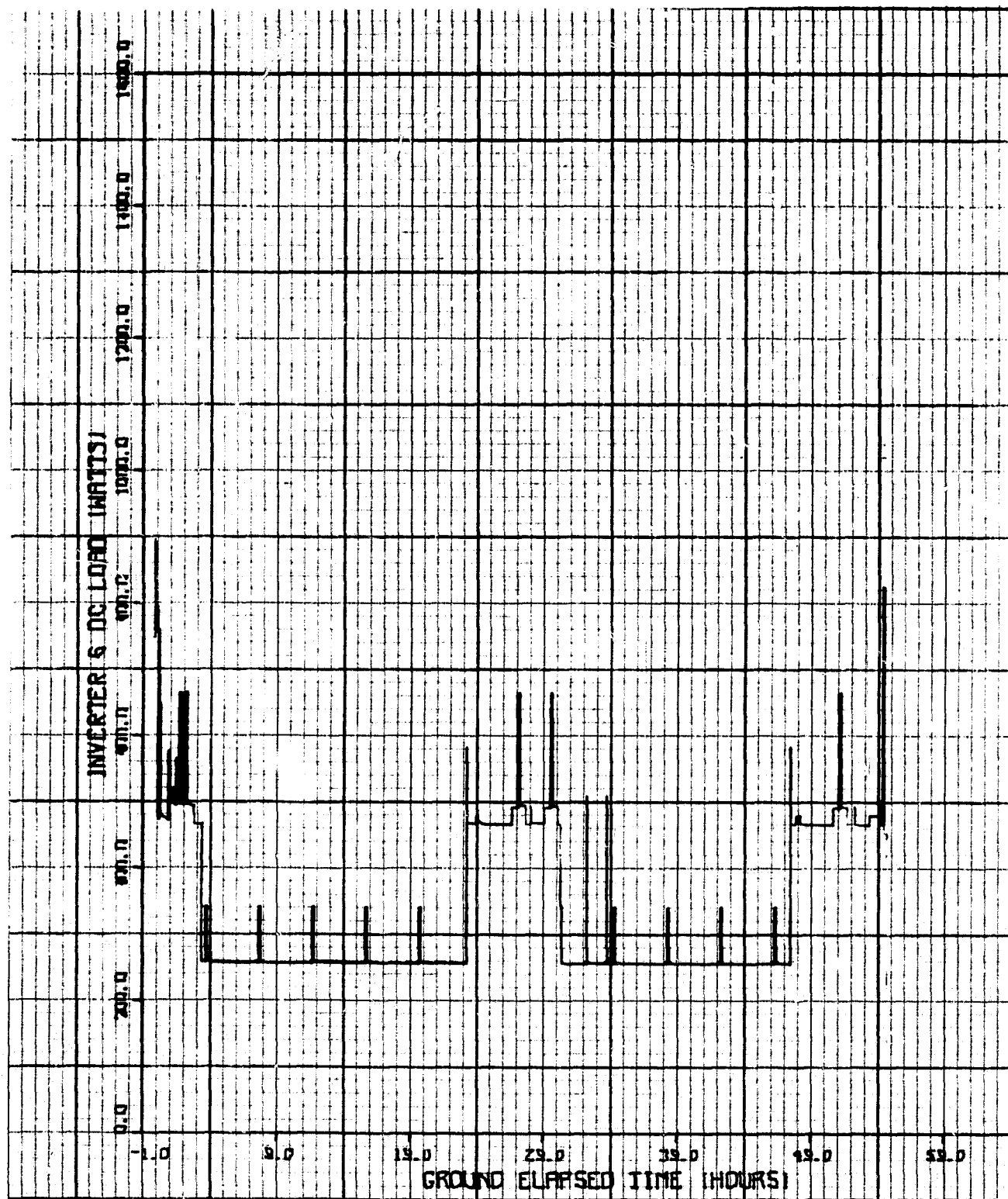


Figure 6.1-50.- Inverter 6 DC load

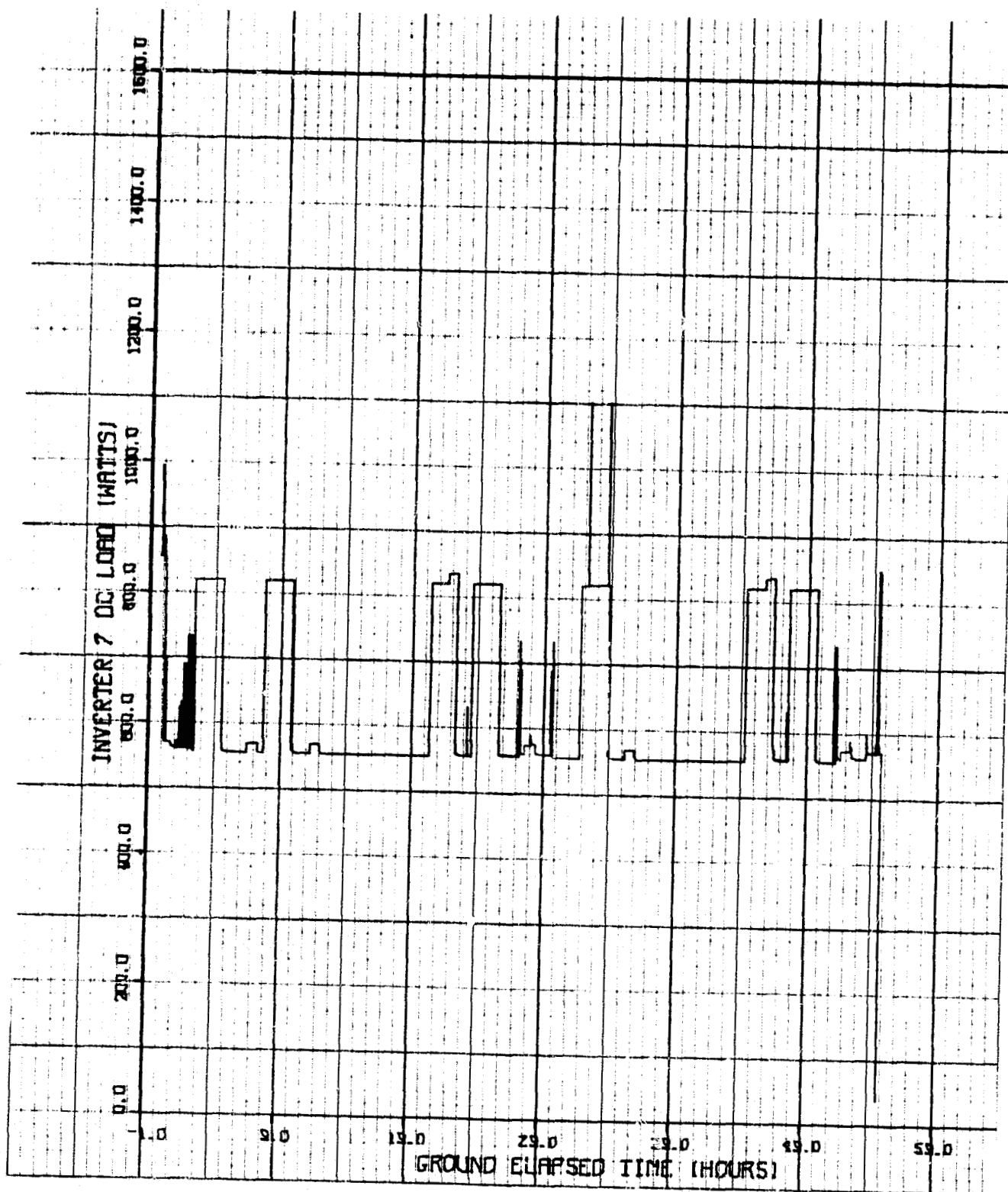


Figure 6.1-51.- Inverter 7 DC load

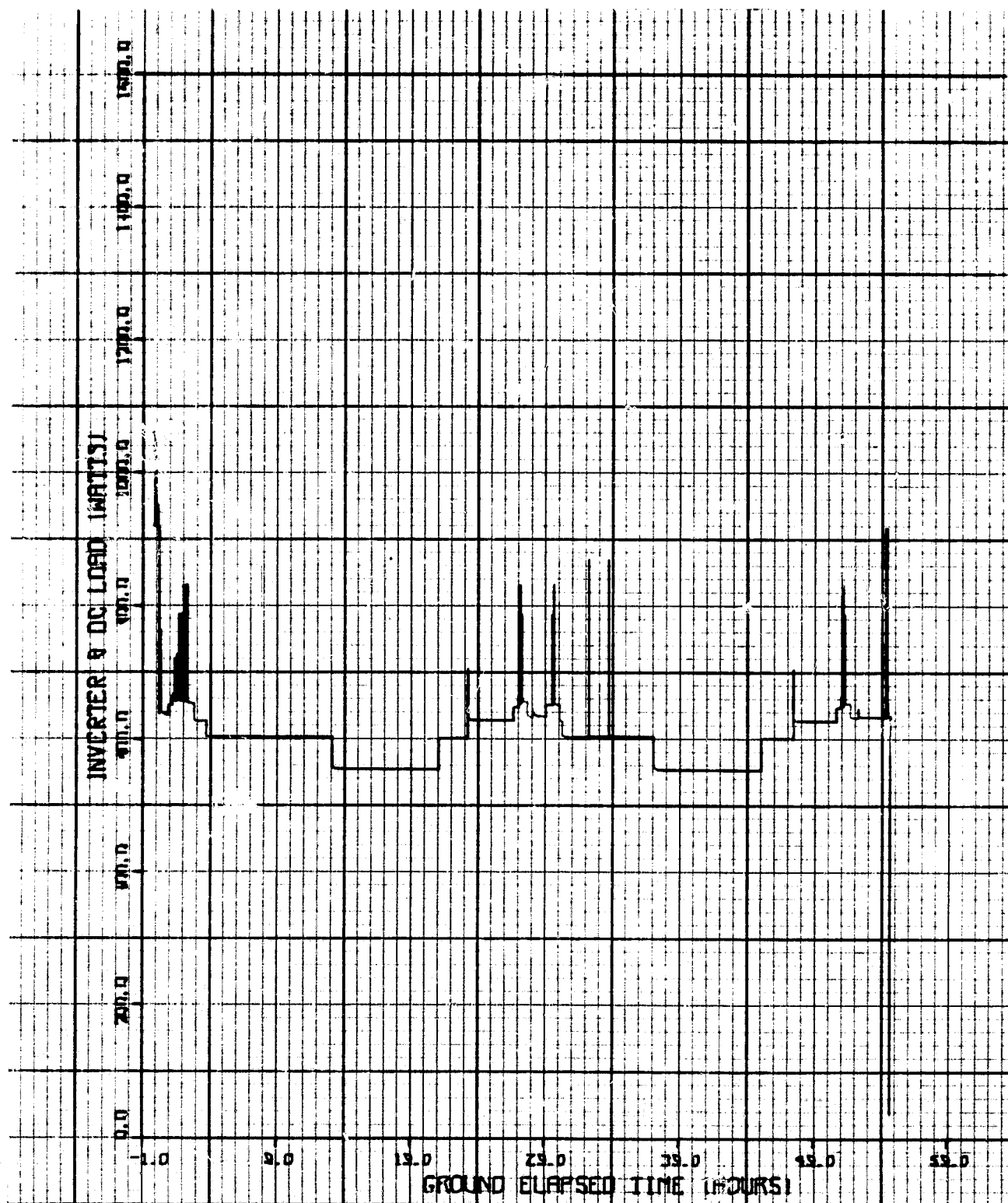


Figure 6.1-52.- Inverter 8 DC load

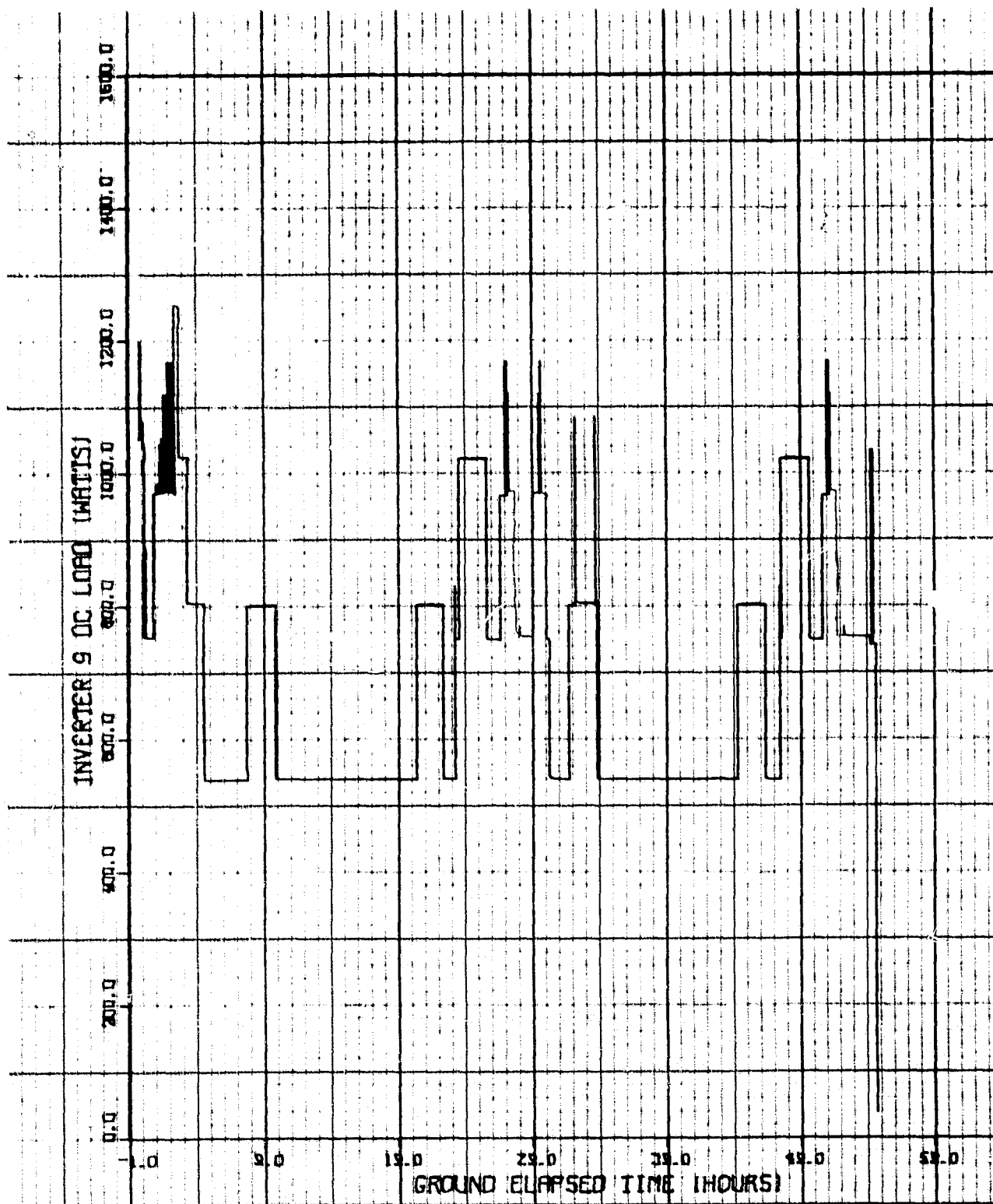


Figure 6.1-53.- Inverter 9 DC load

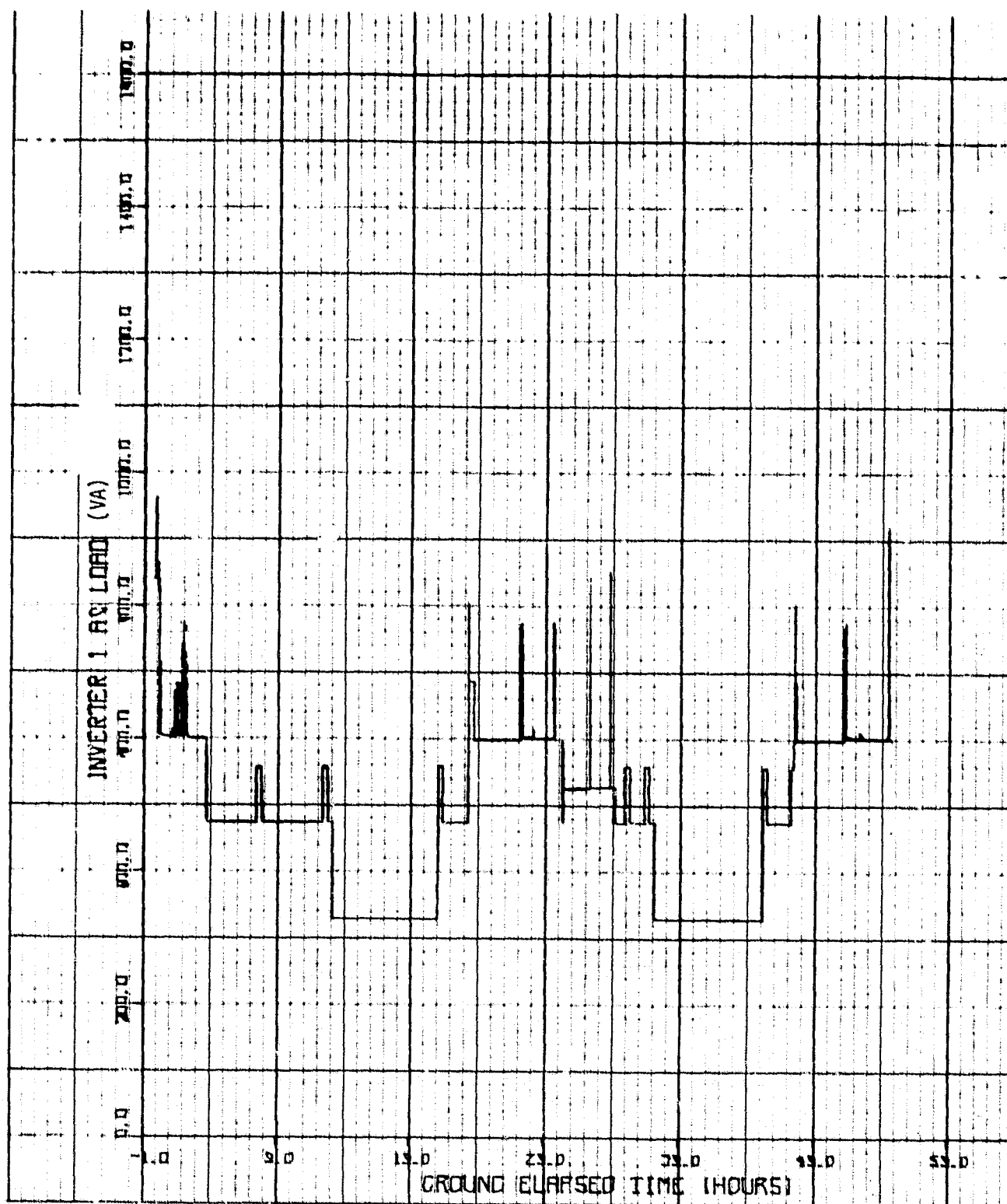


Figure 6.1-54.- Inverter 1 AC load

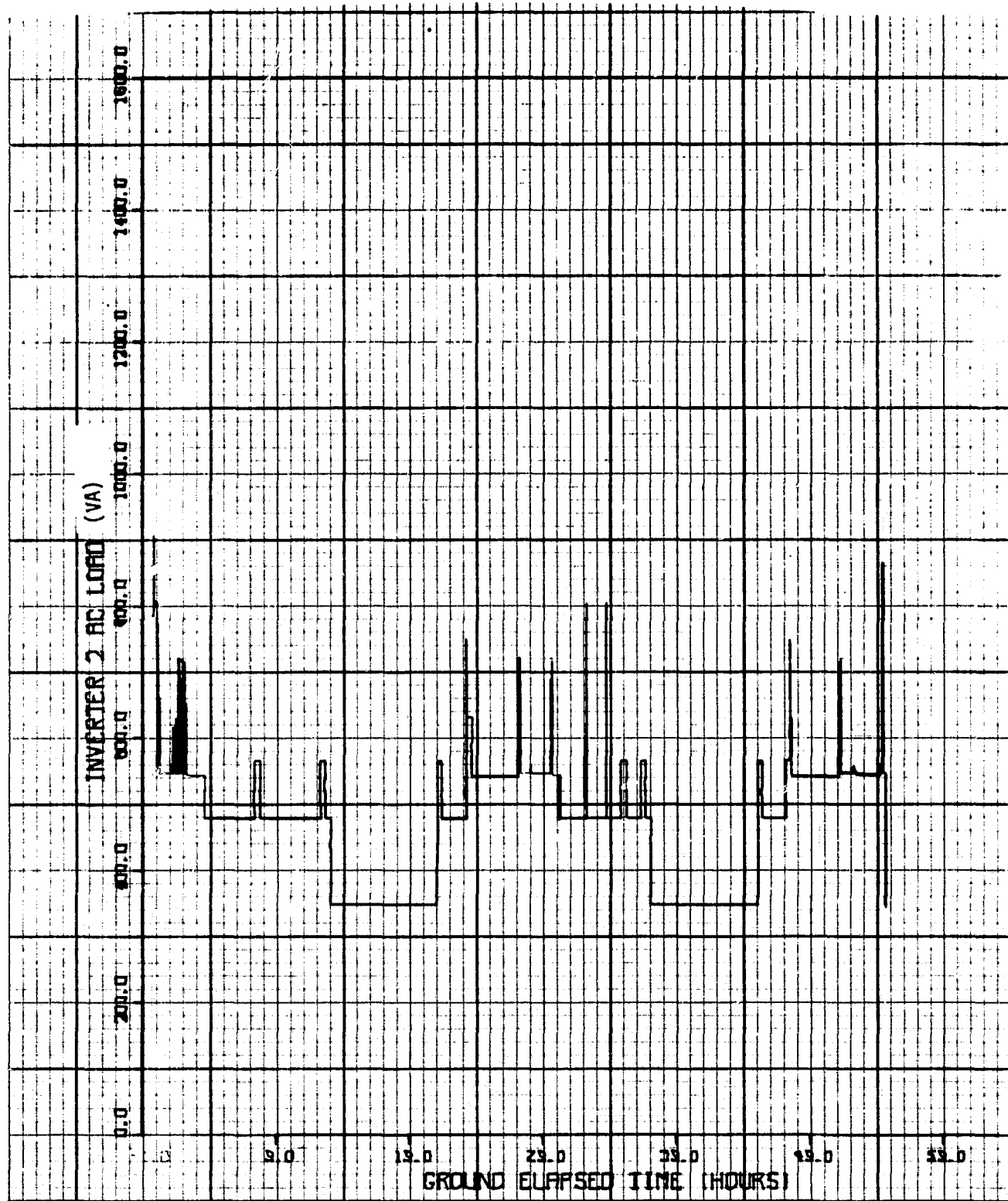


Figure 6.1-55.- Inverter 2 AC load

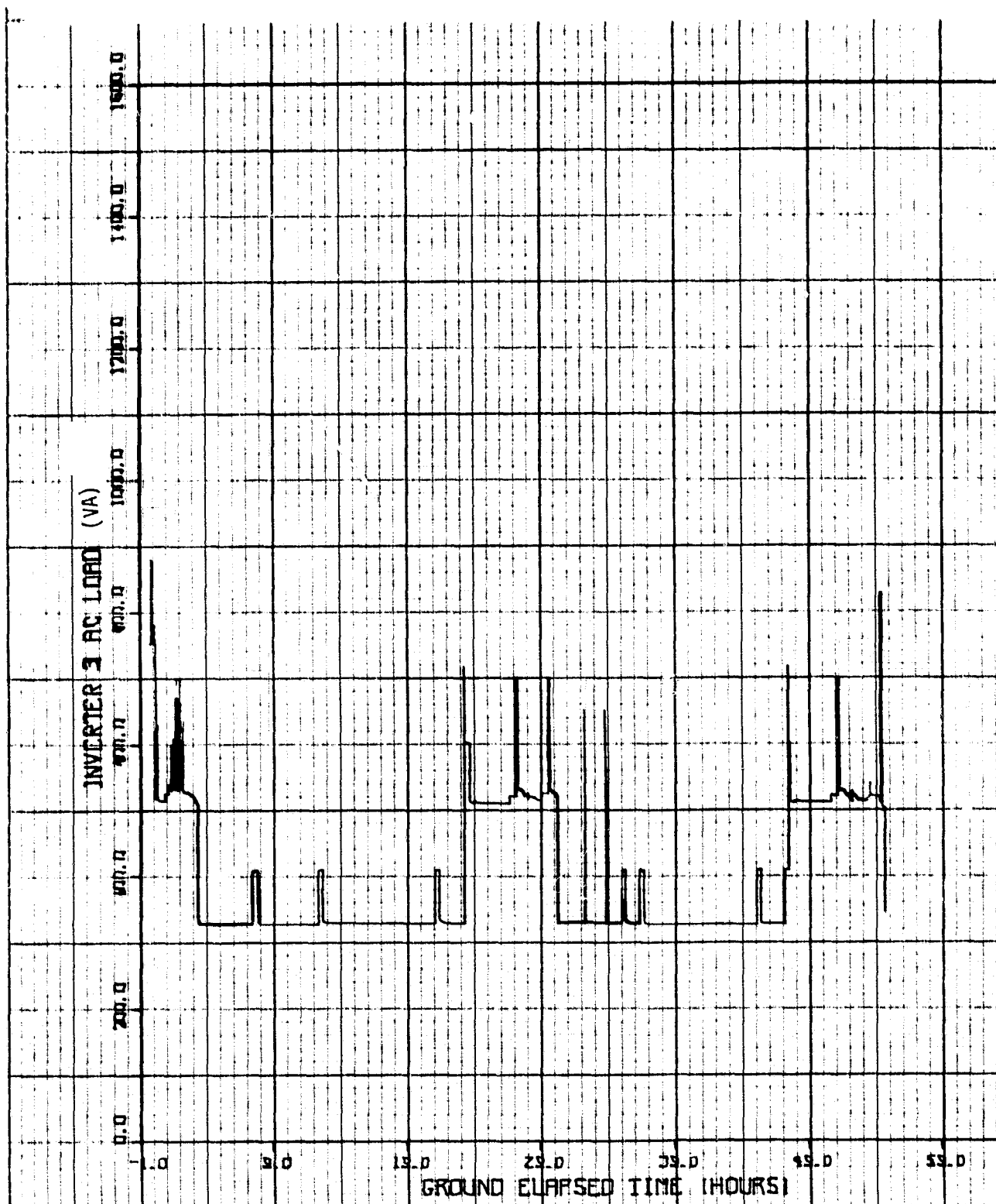


Figure 6.1-56.- Inverter 3 AC load

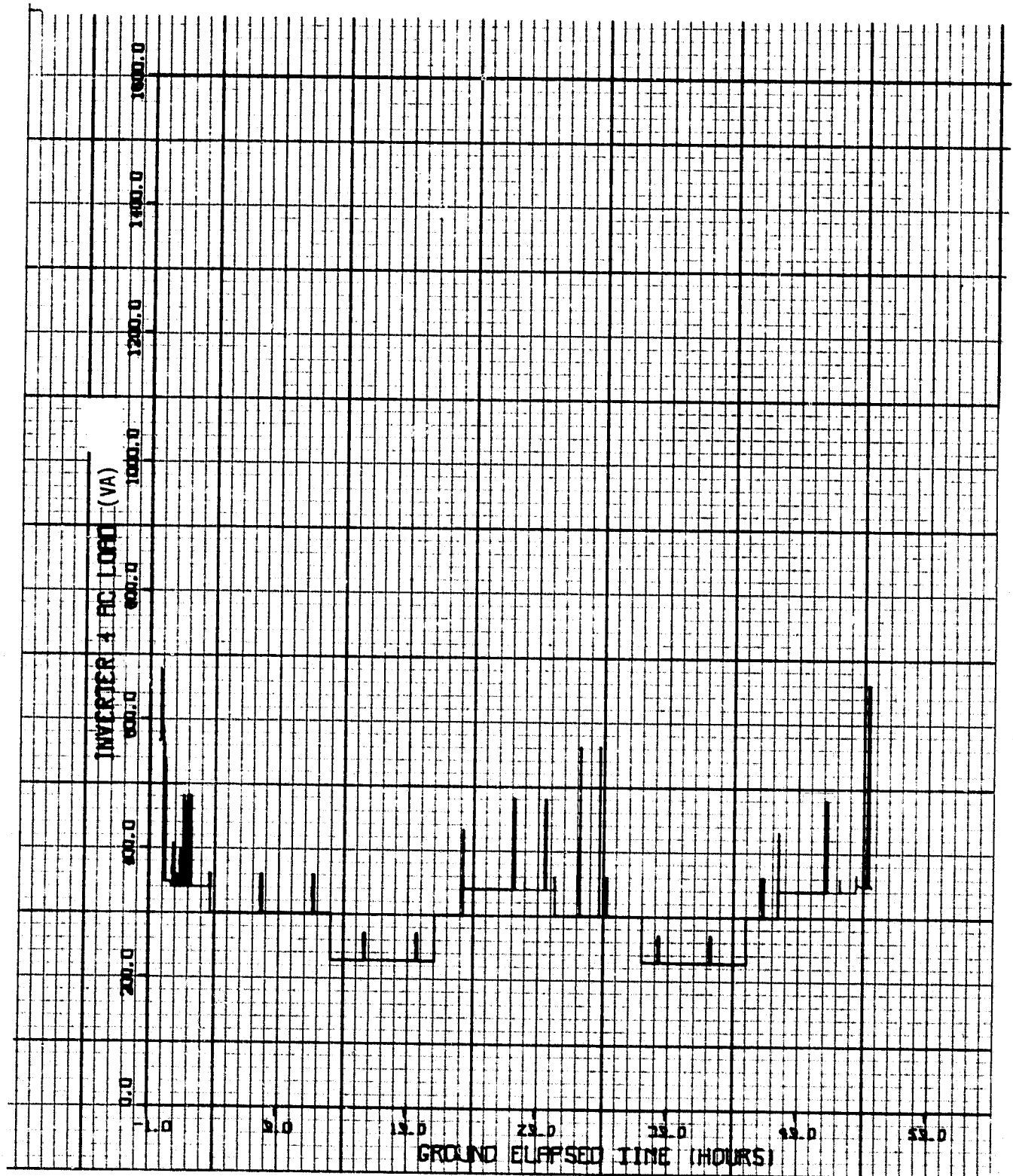


Figure 6.1-57.- Inverter 4 AC load

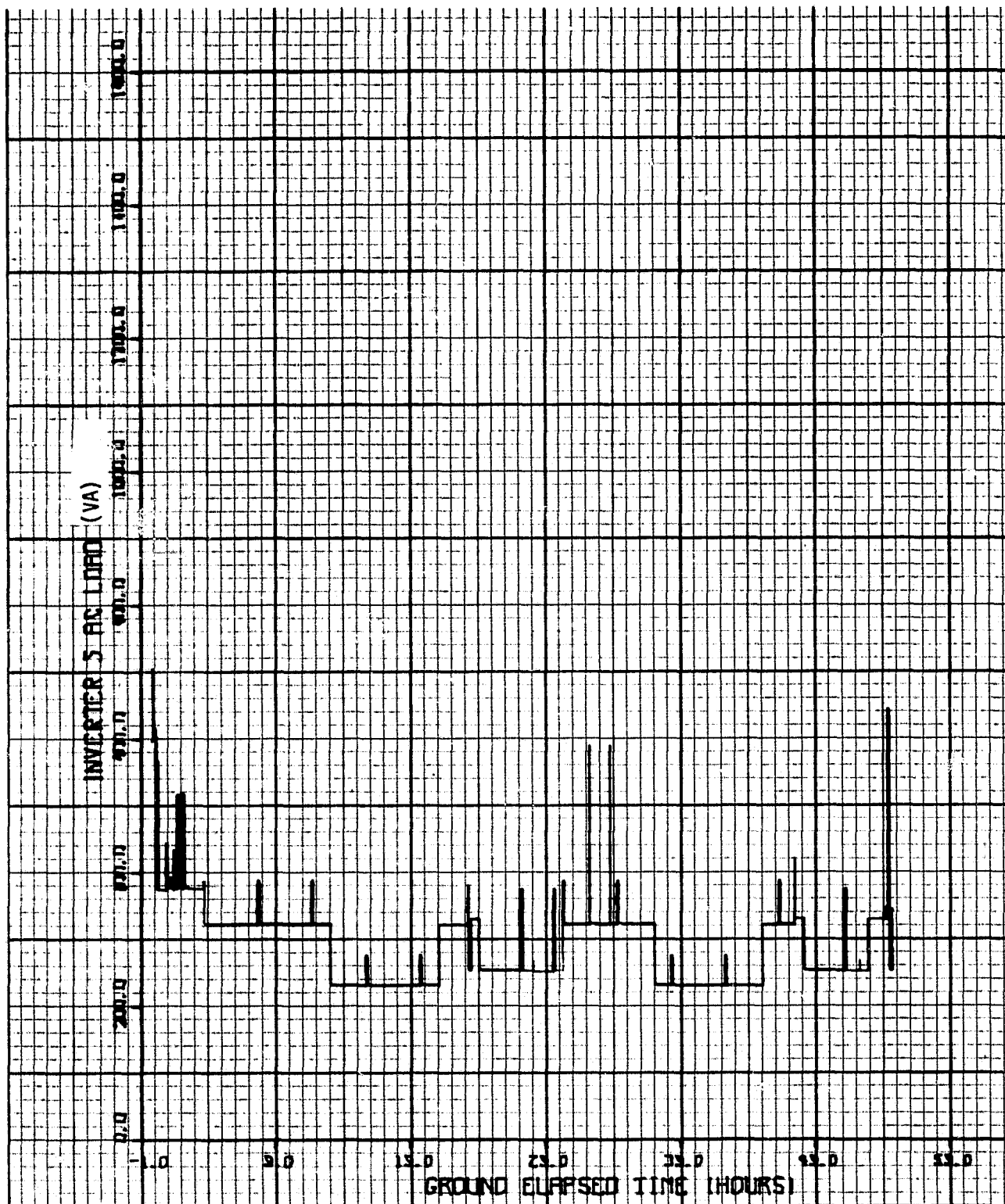


Figure 6.1-58.- Inverter 5 AC load

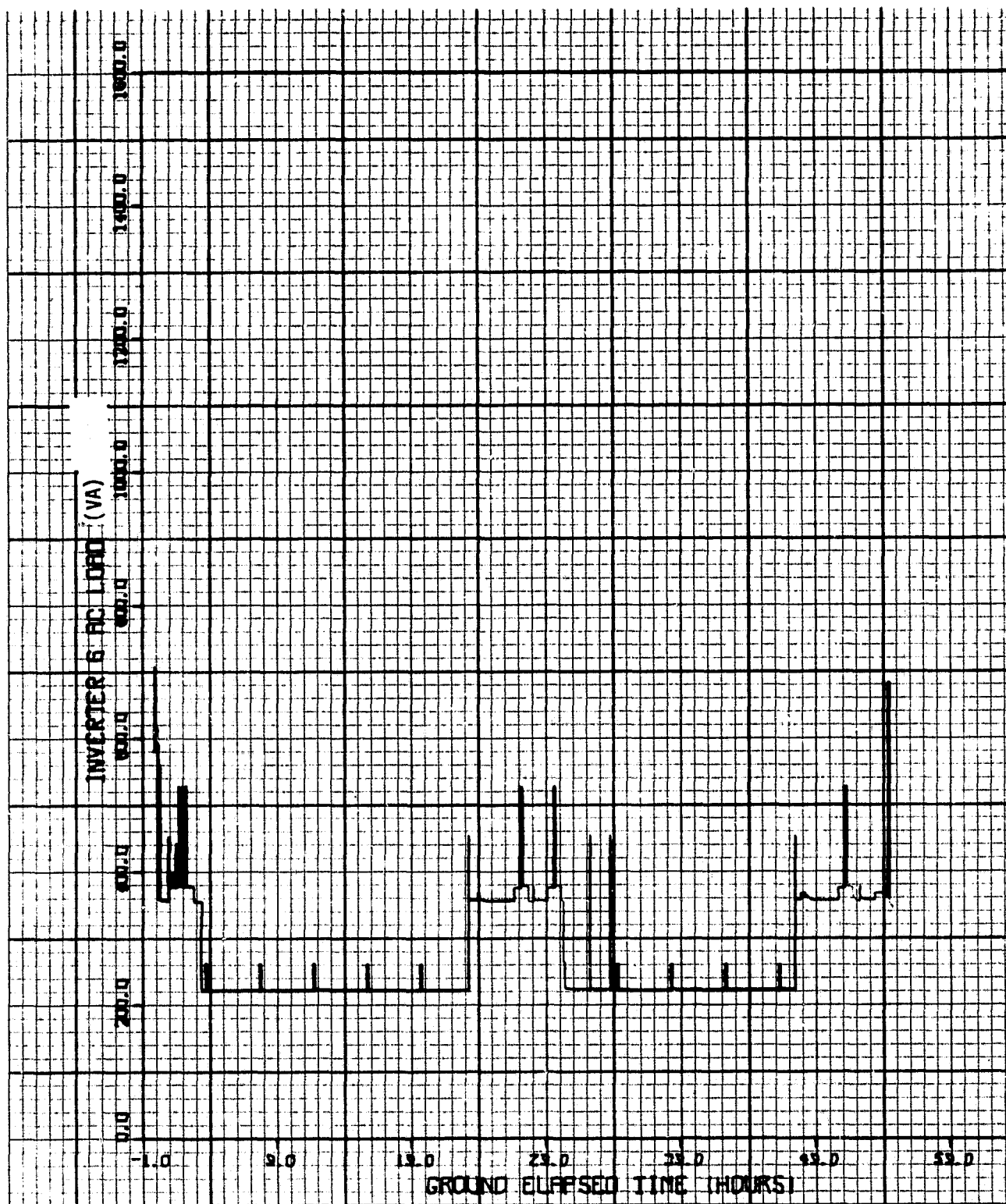


Figure 6.1-59.- Inverter 6 AC load

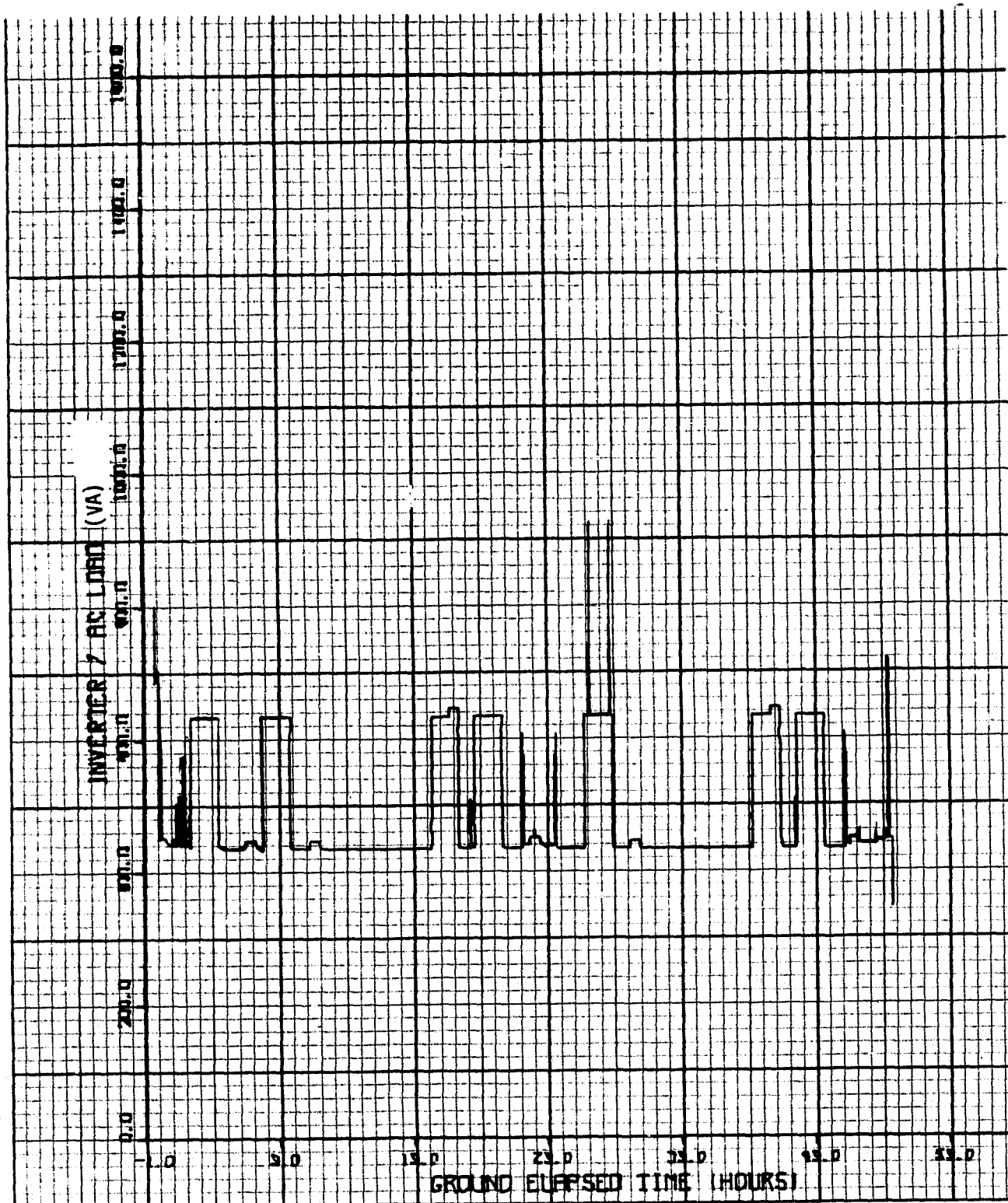


Figure 6.1-60.- Inverter 7 AC load

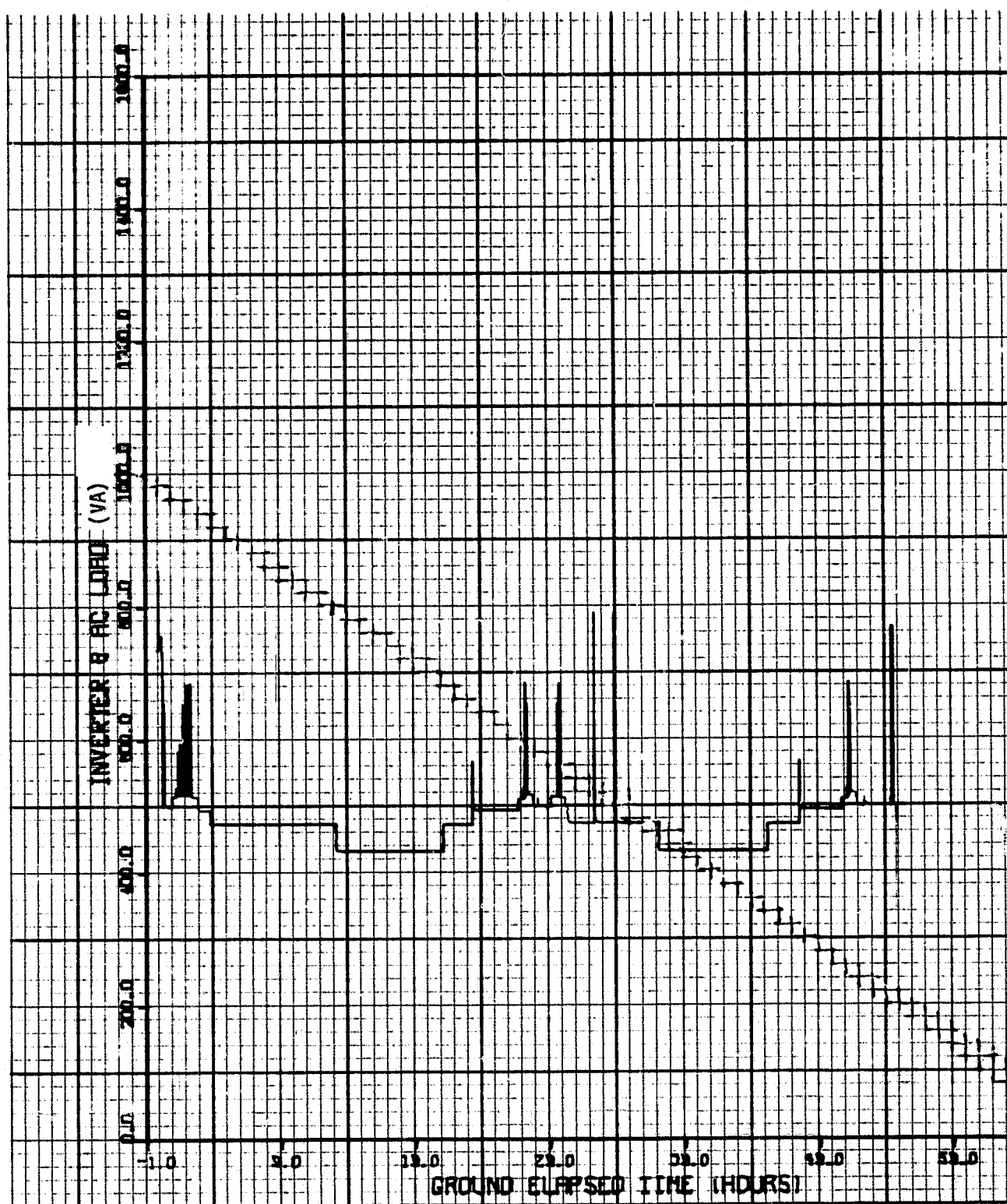


Figure 6.J-61.- Inverter 8 AC load

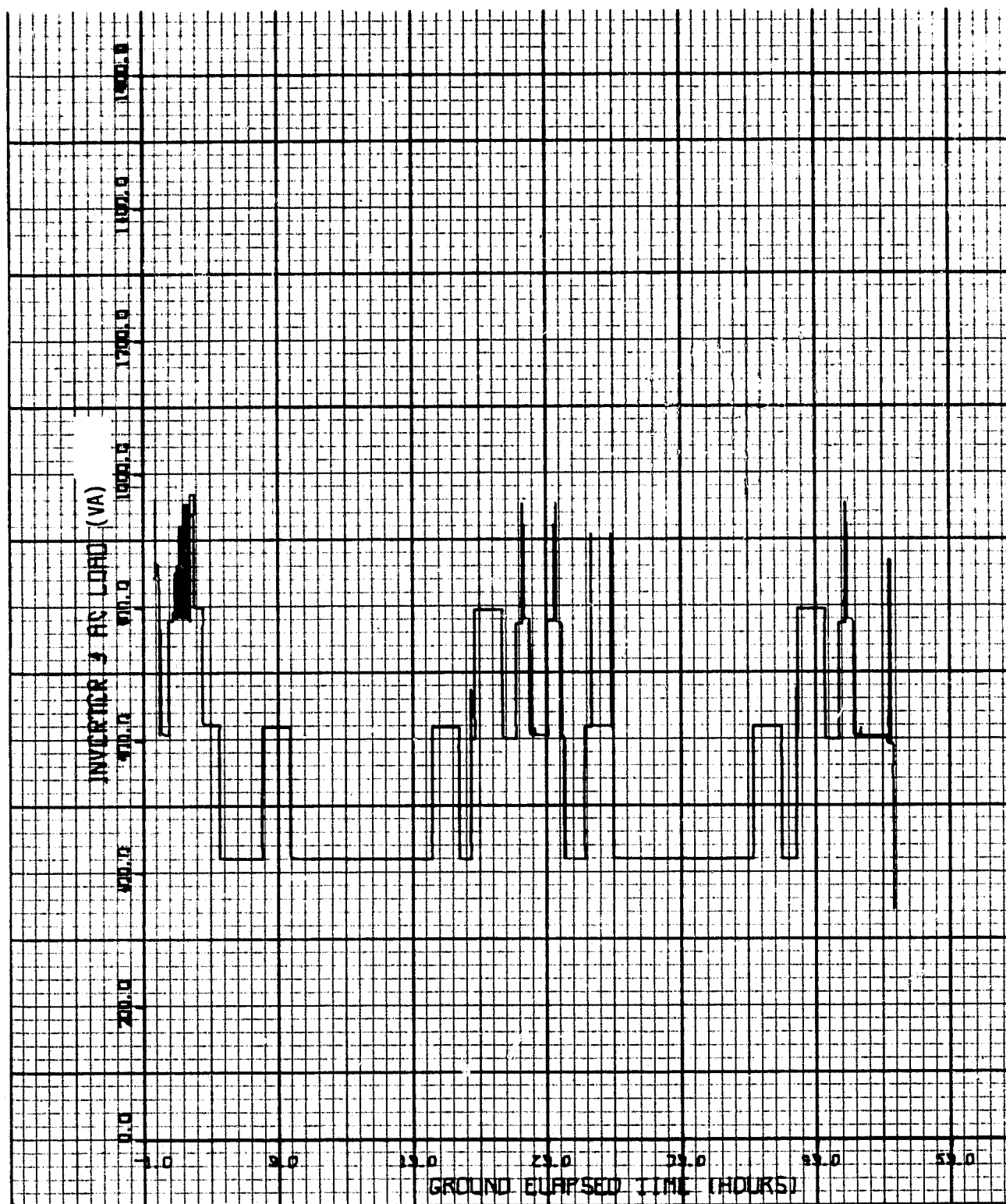


Figure 6.1-62.- Inverter 9 AC load

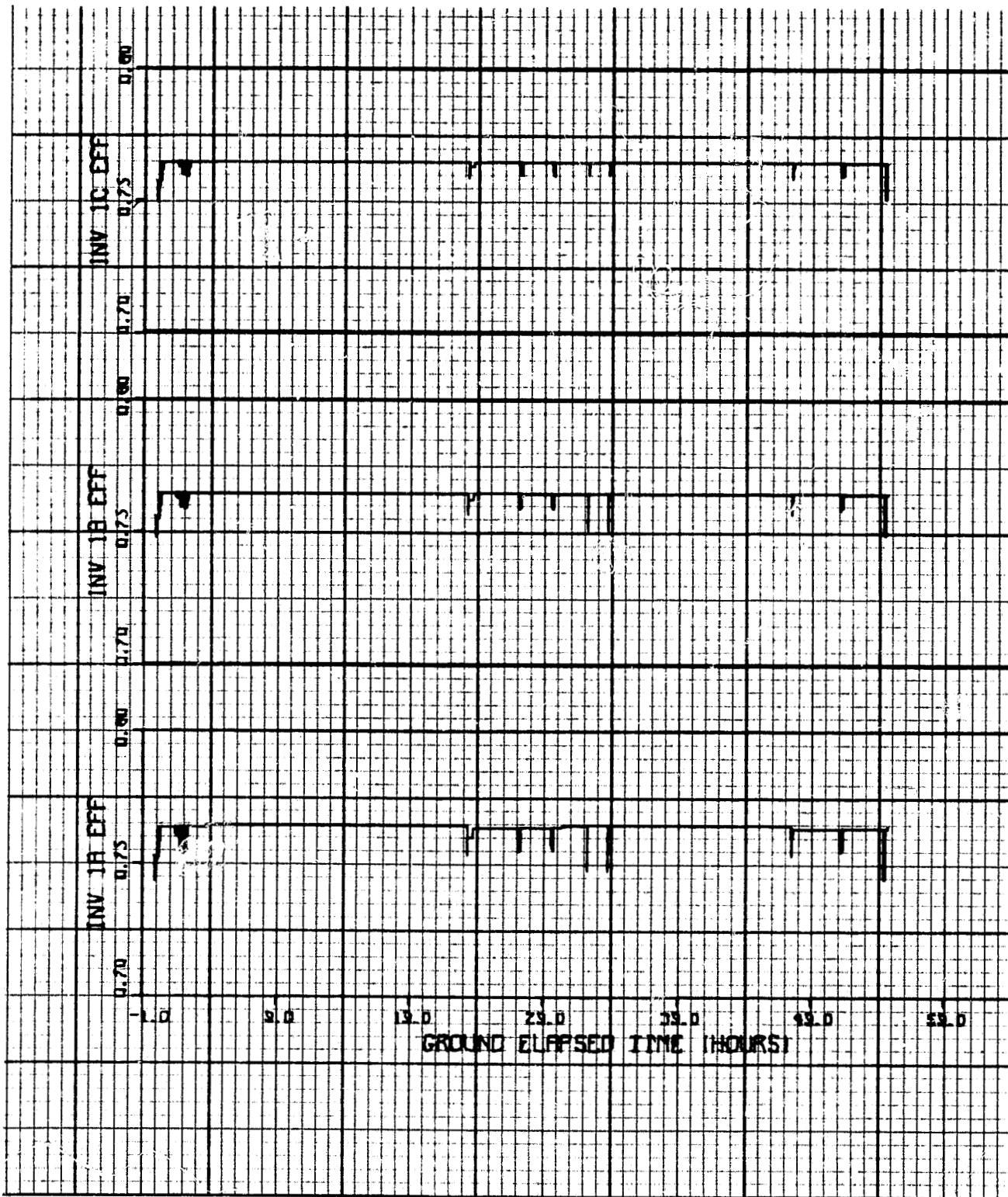


Figure 6.1-63.- Inverter efficiency 1A, 1B, 1C

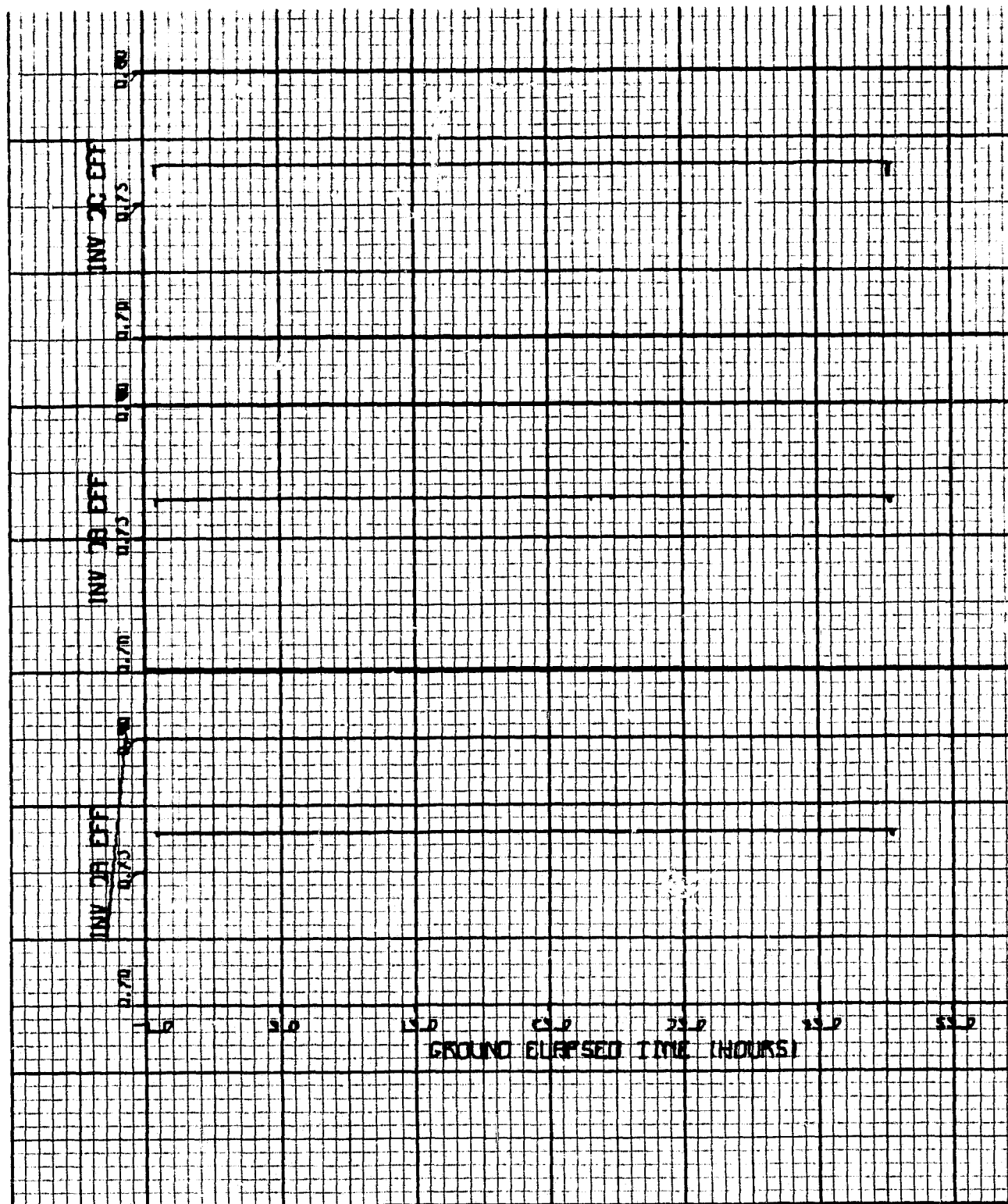


Figure 6.1-64.- Inverter efficiency 2A, 2B, 2C

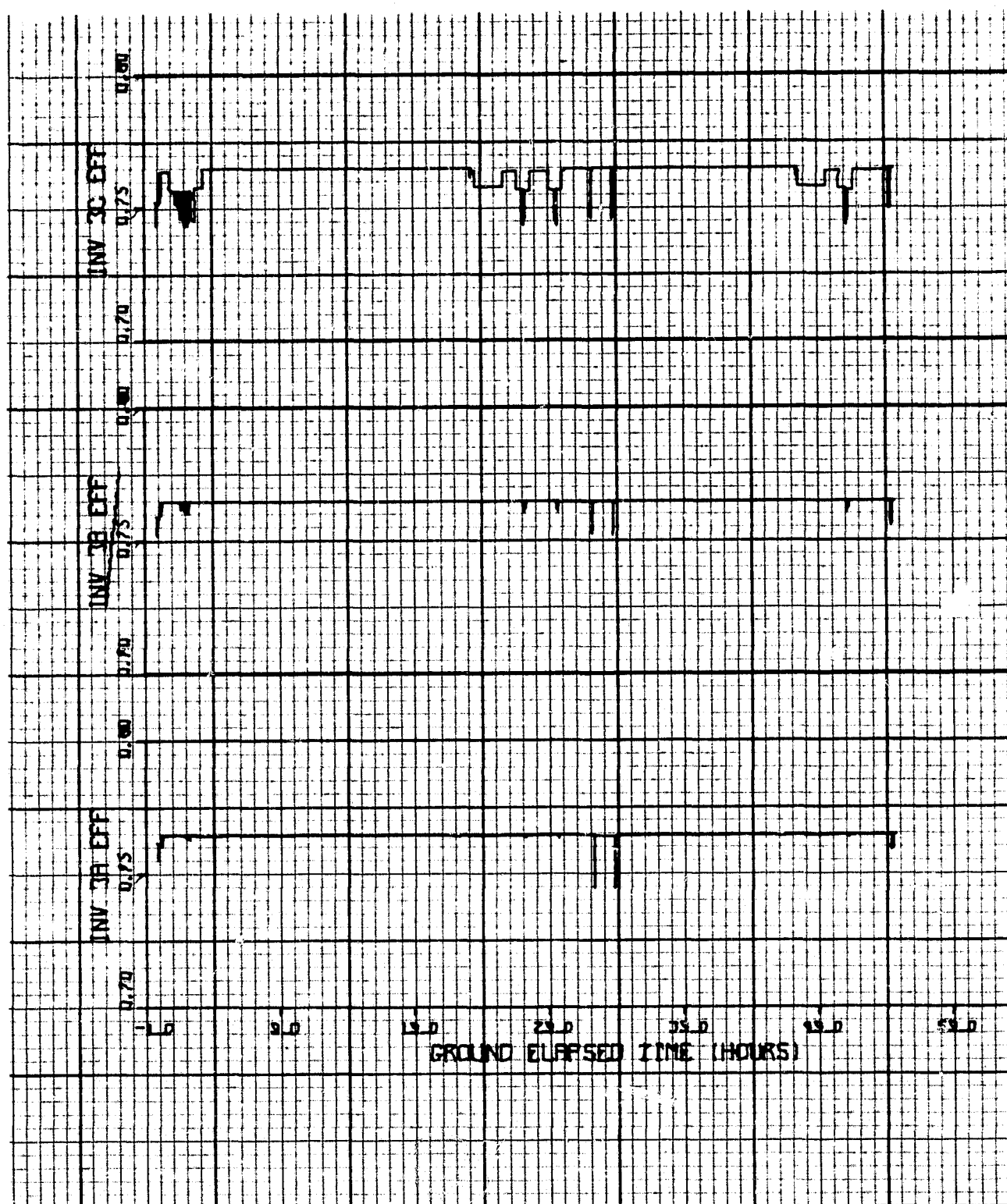


Figure 6.1-65.- Inverter efficiency 3A, 3B, 3C

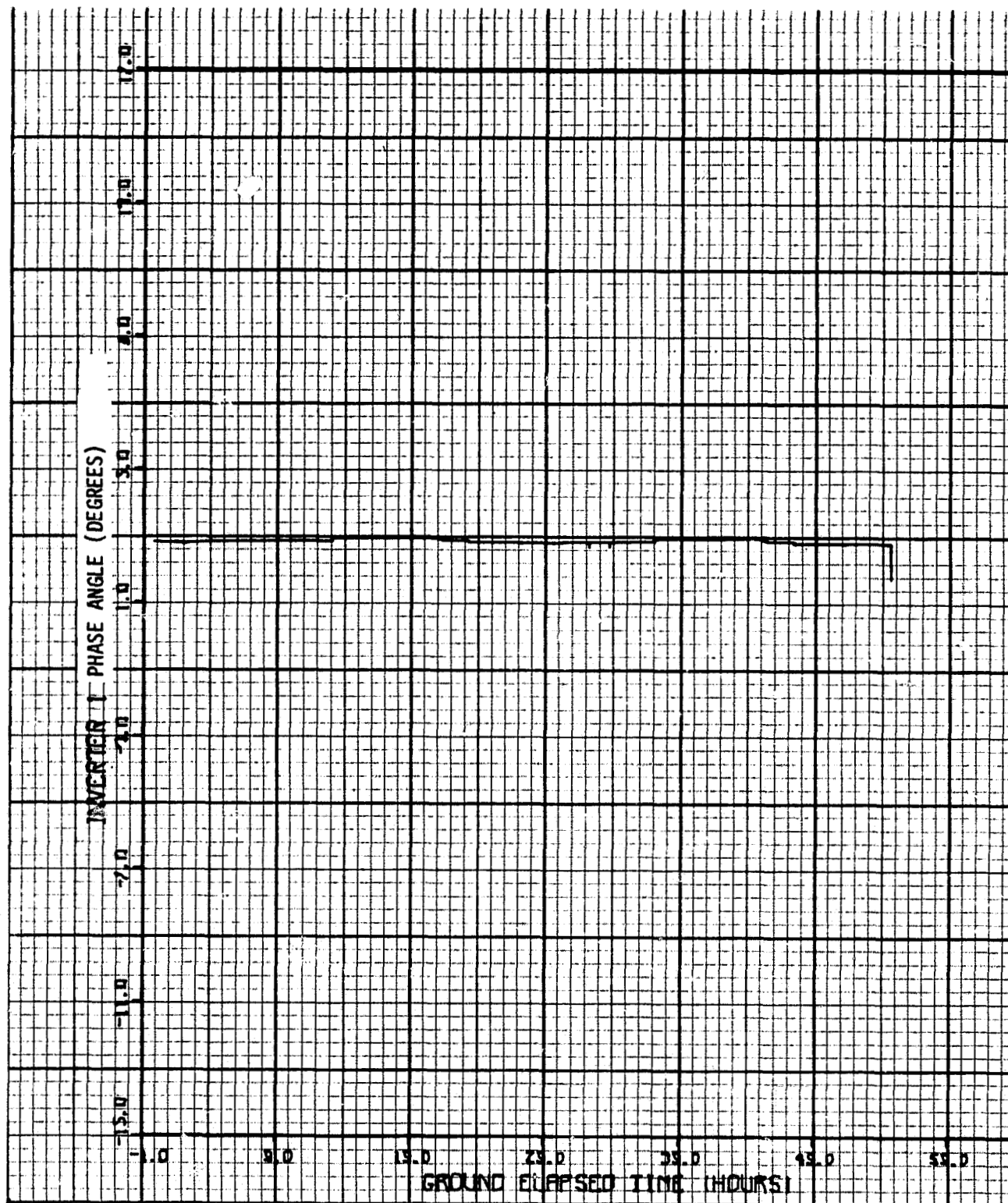


Figure 6.1-66.- Inverter 1 phase angle

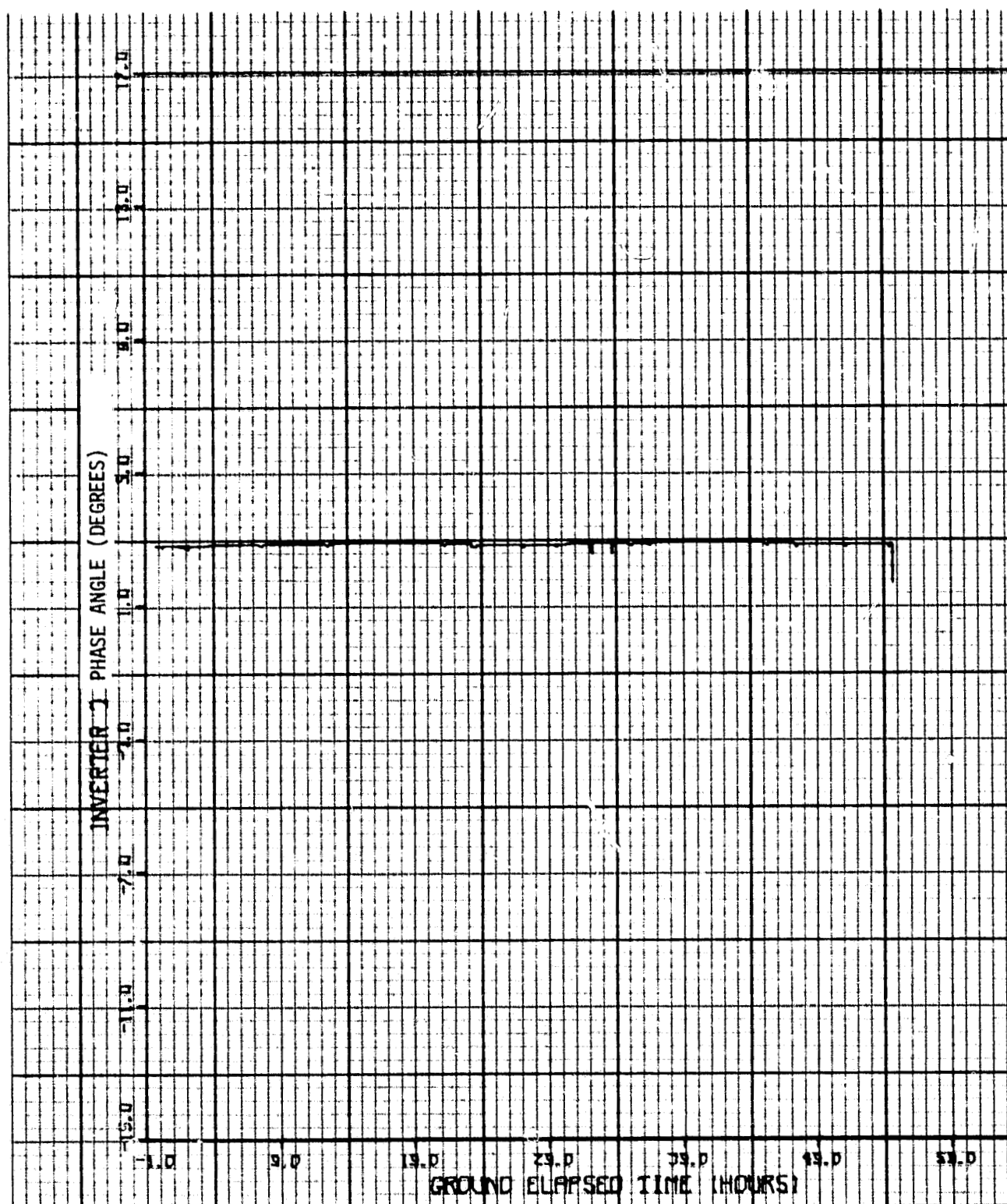


Figure 6.1-67.- Inverter 2 phase angle

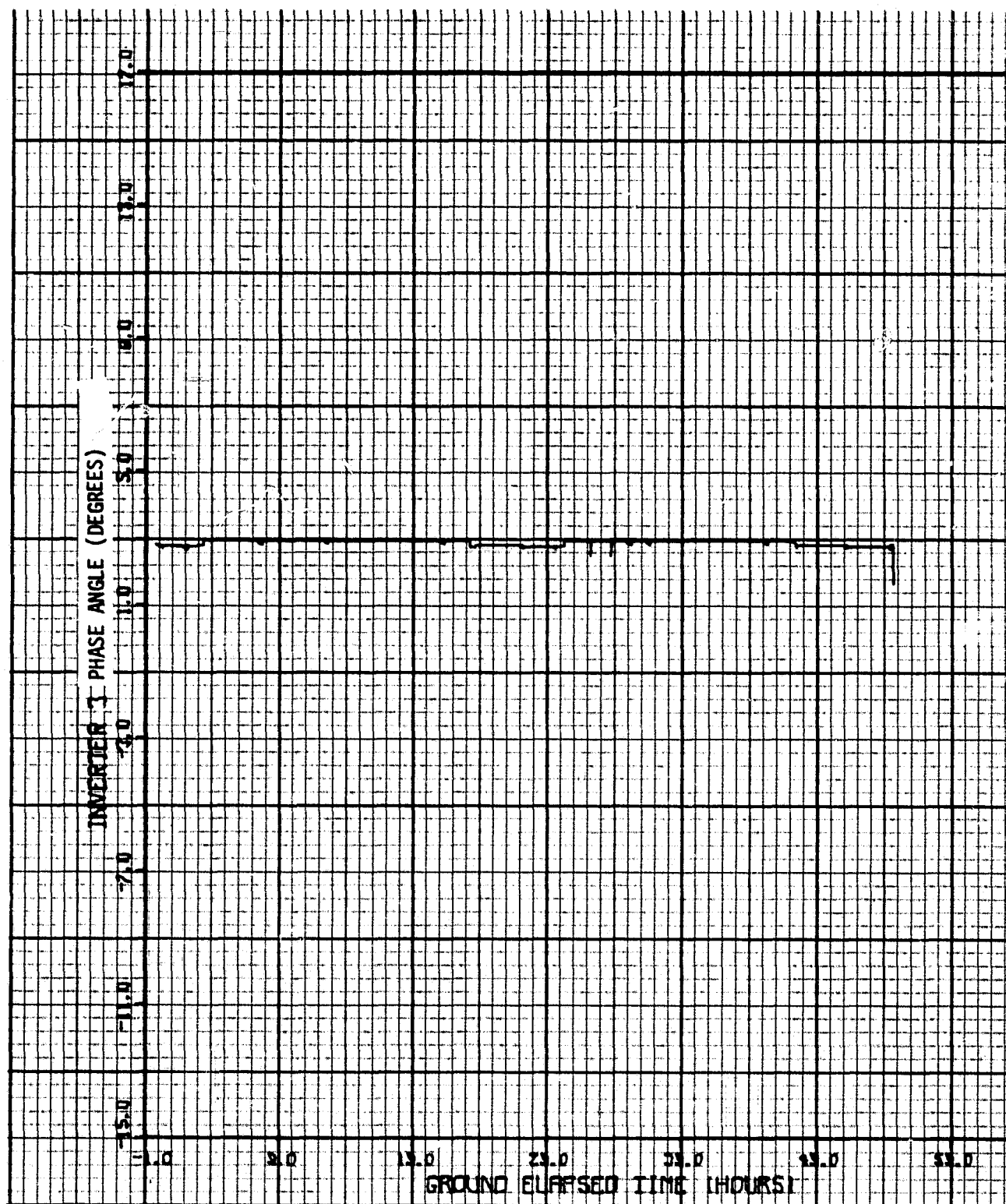


Figure 6.1-68.- Inverter 3 phase angle

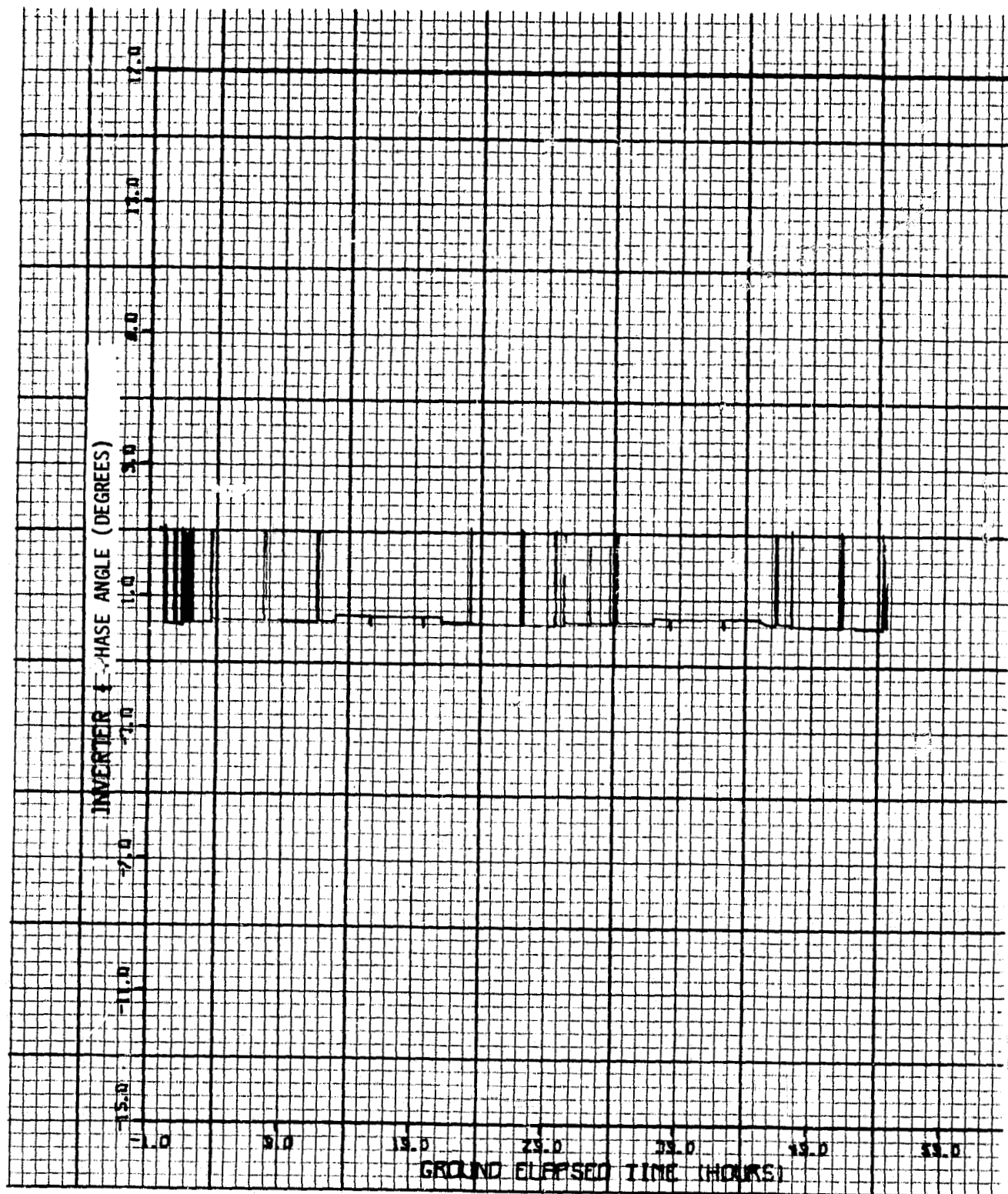


Figure 6.1-69.- Inverter 4 phase angle

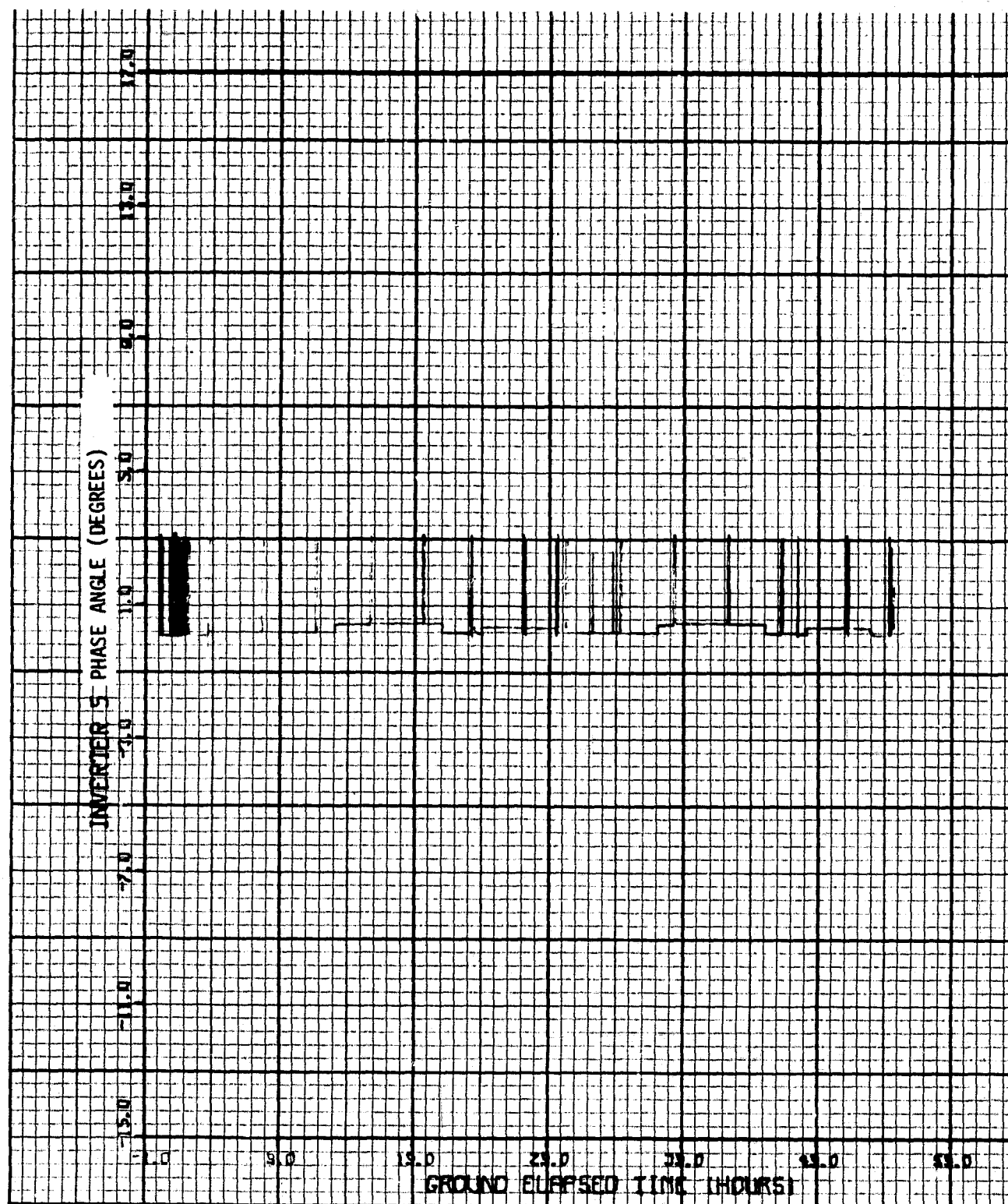


Figure 6.1-70.- Inverter 5 phase angle

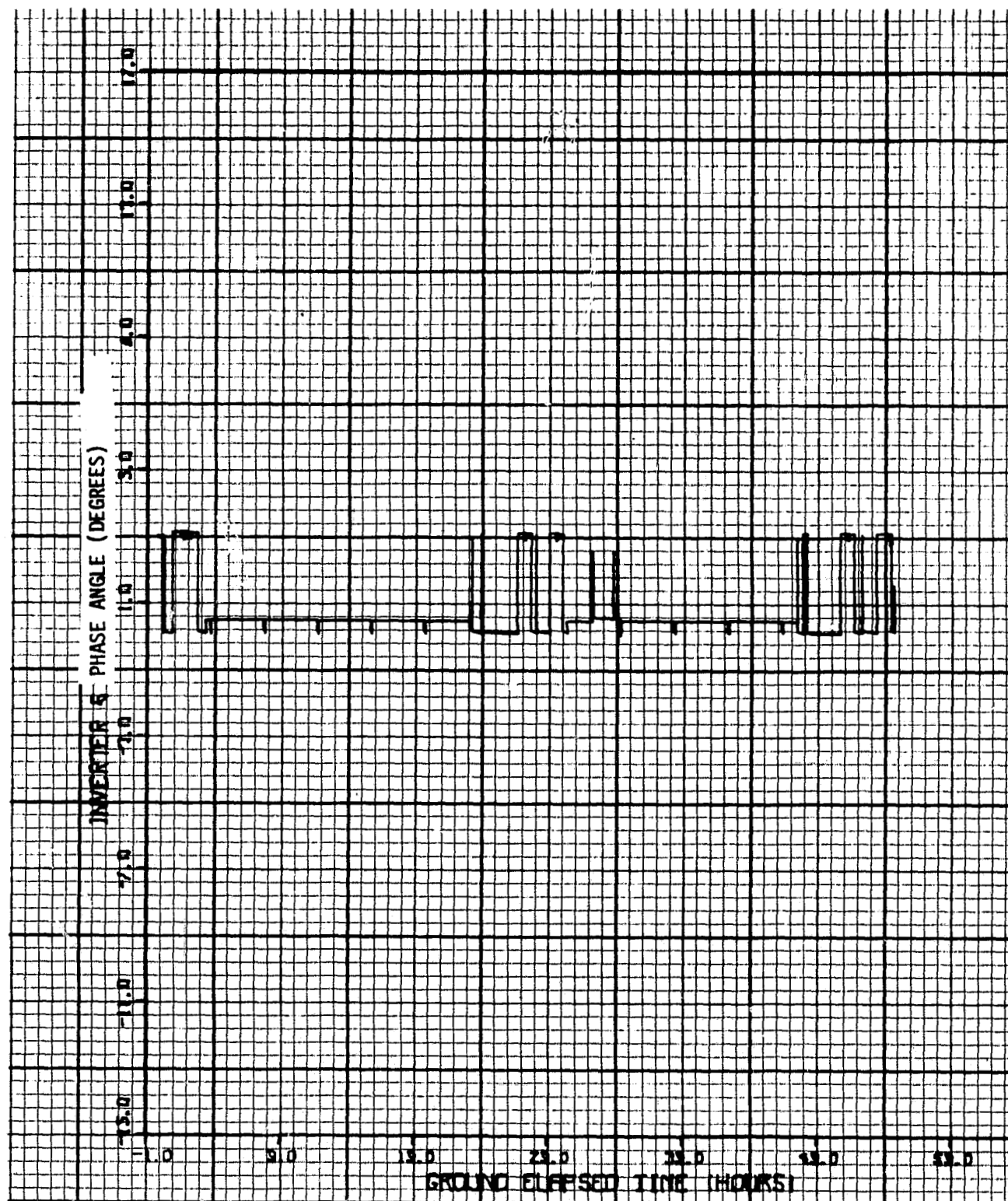


Figure 6.1-71.- Inverter 6 phase angle

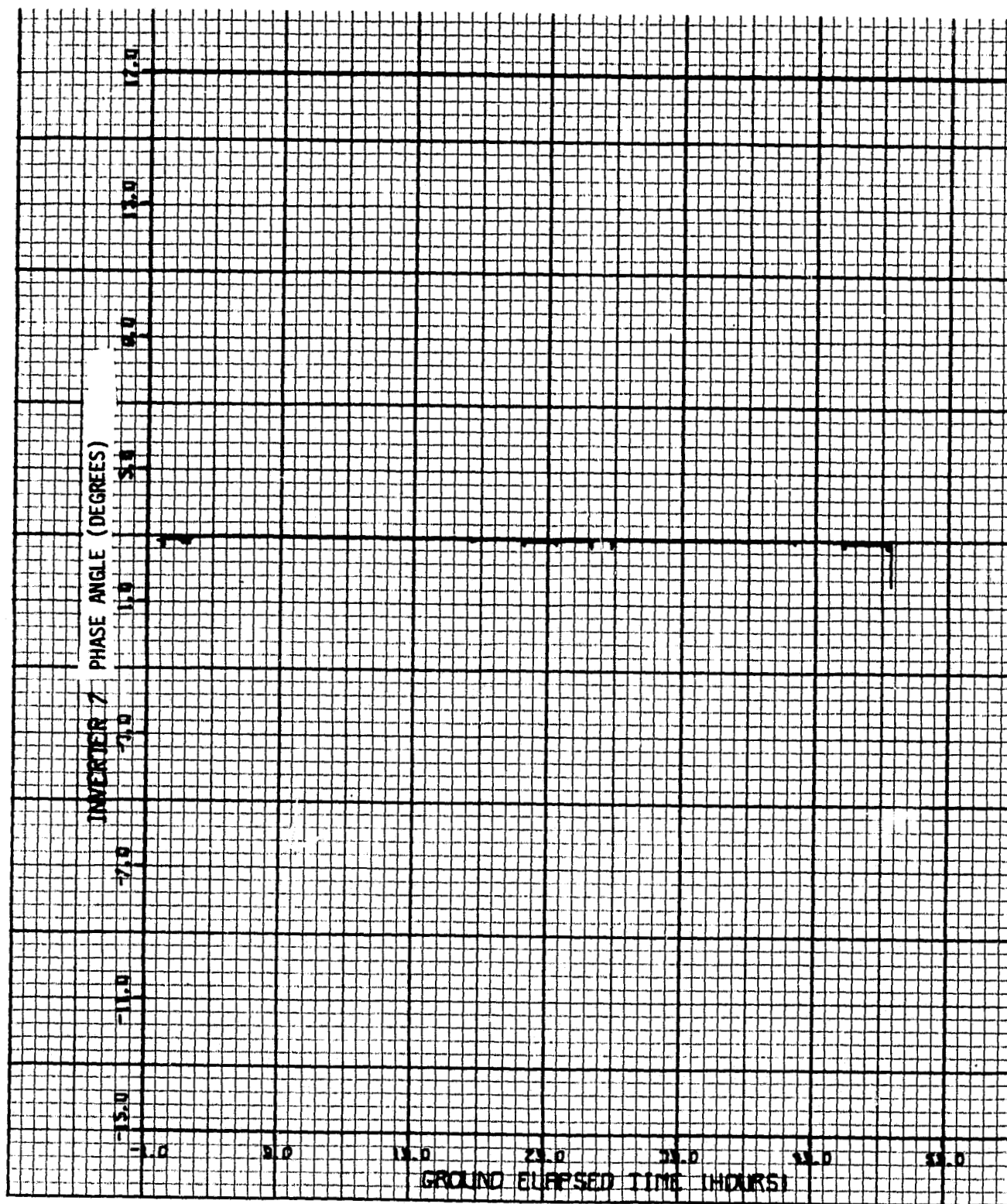


Figure 6.1-72.- Inverter 7 phase angle

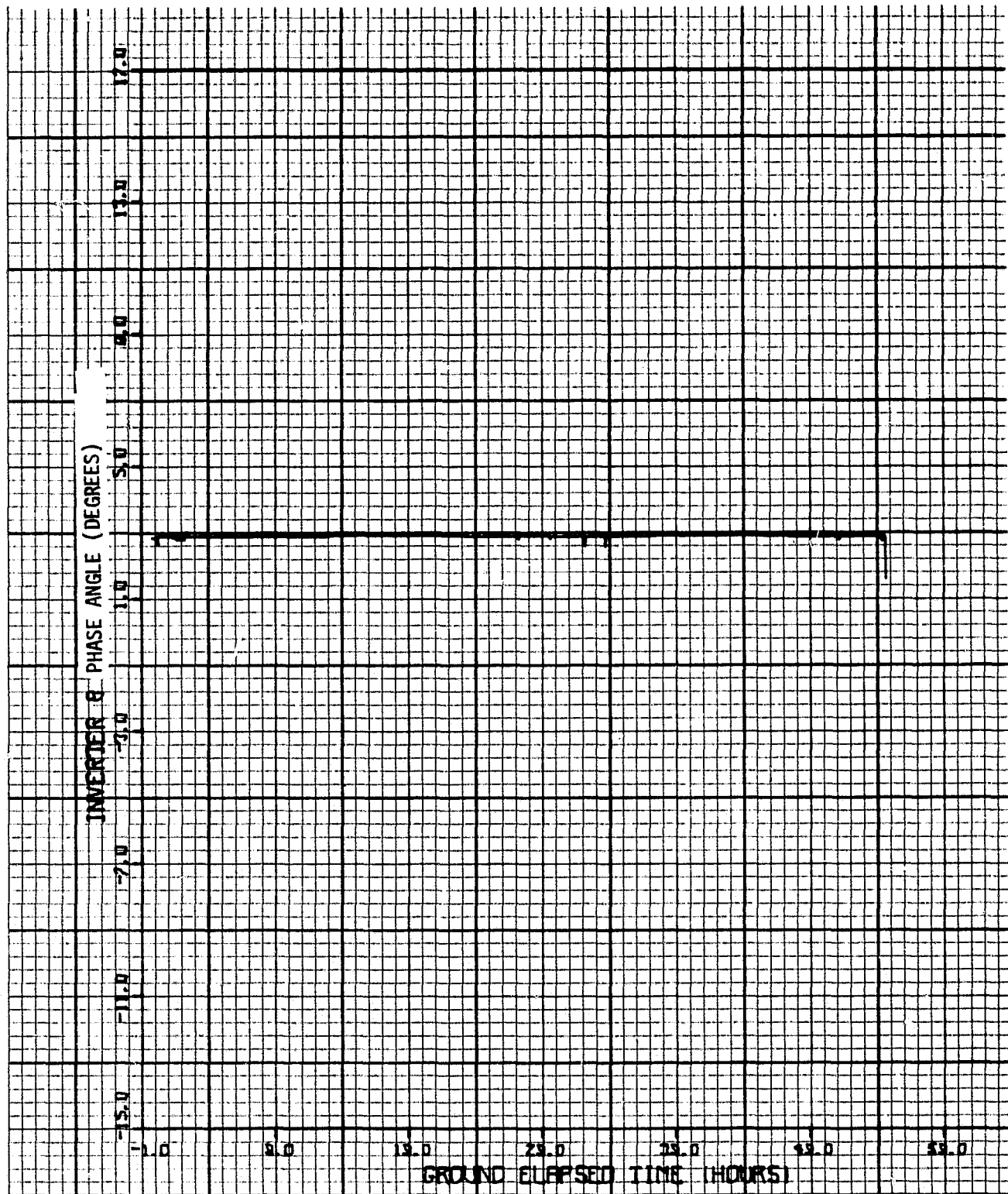


Figure 6.1-73.-Inverter 8 phase angle

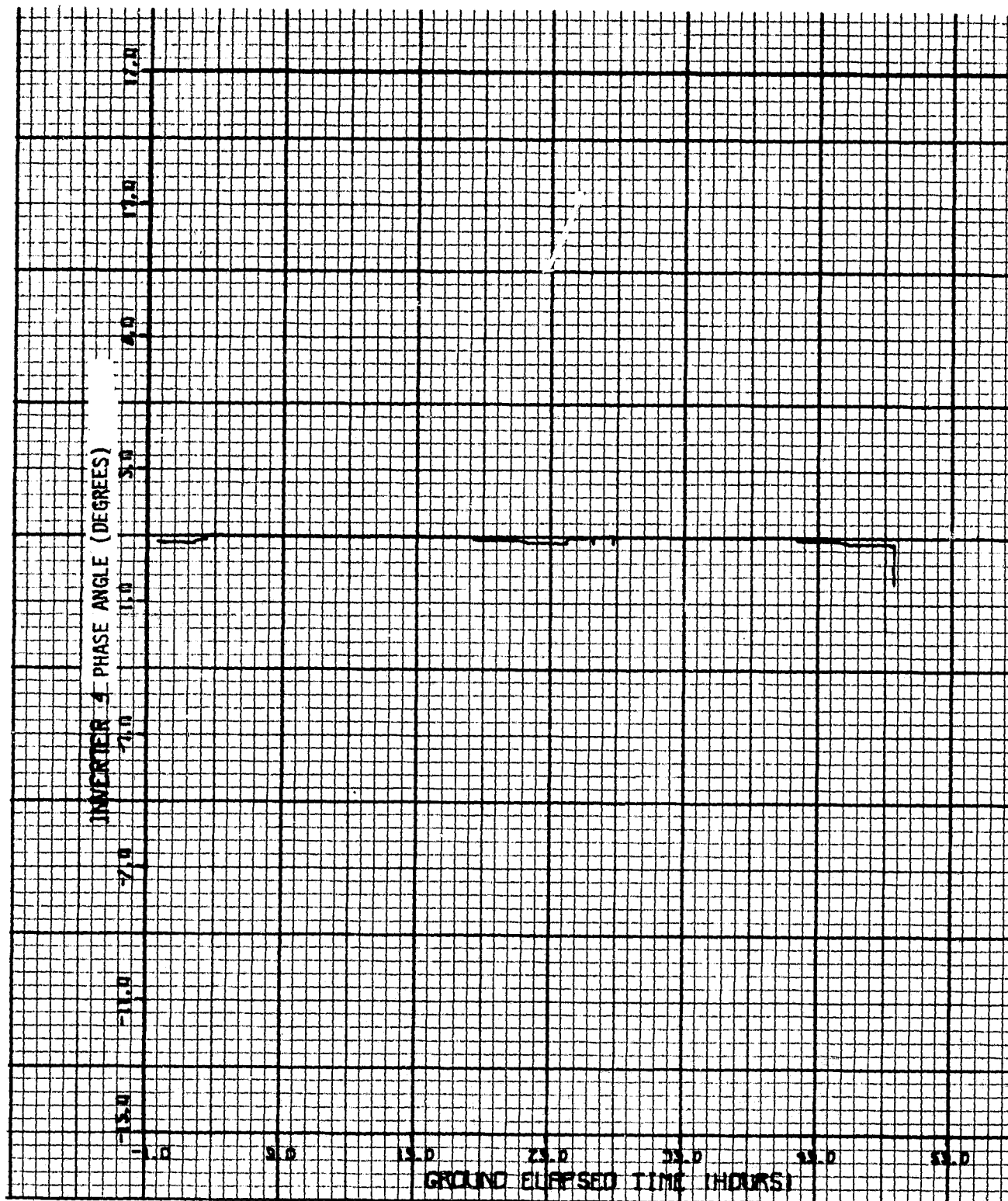


Figure 6.1-74.- Inverter 9 phase angle

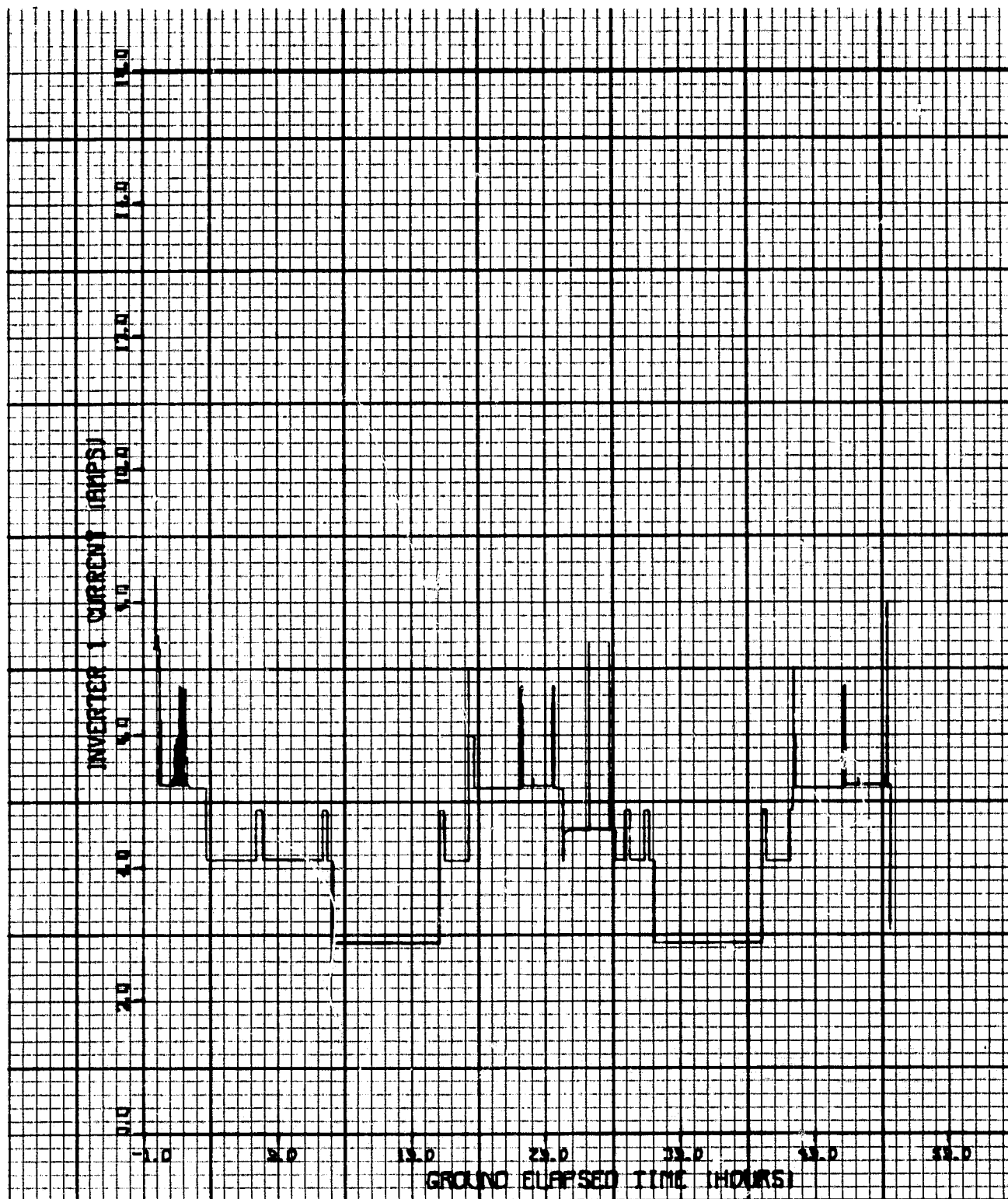


Figure 6.1-75.- Inverter 1 current



Figure 6.1-76.- Inverter 2 current

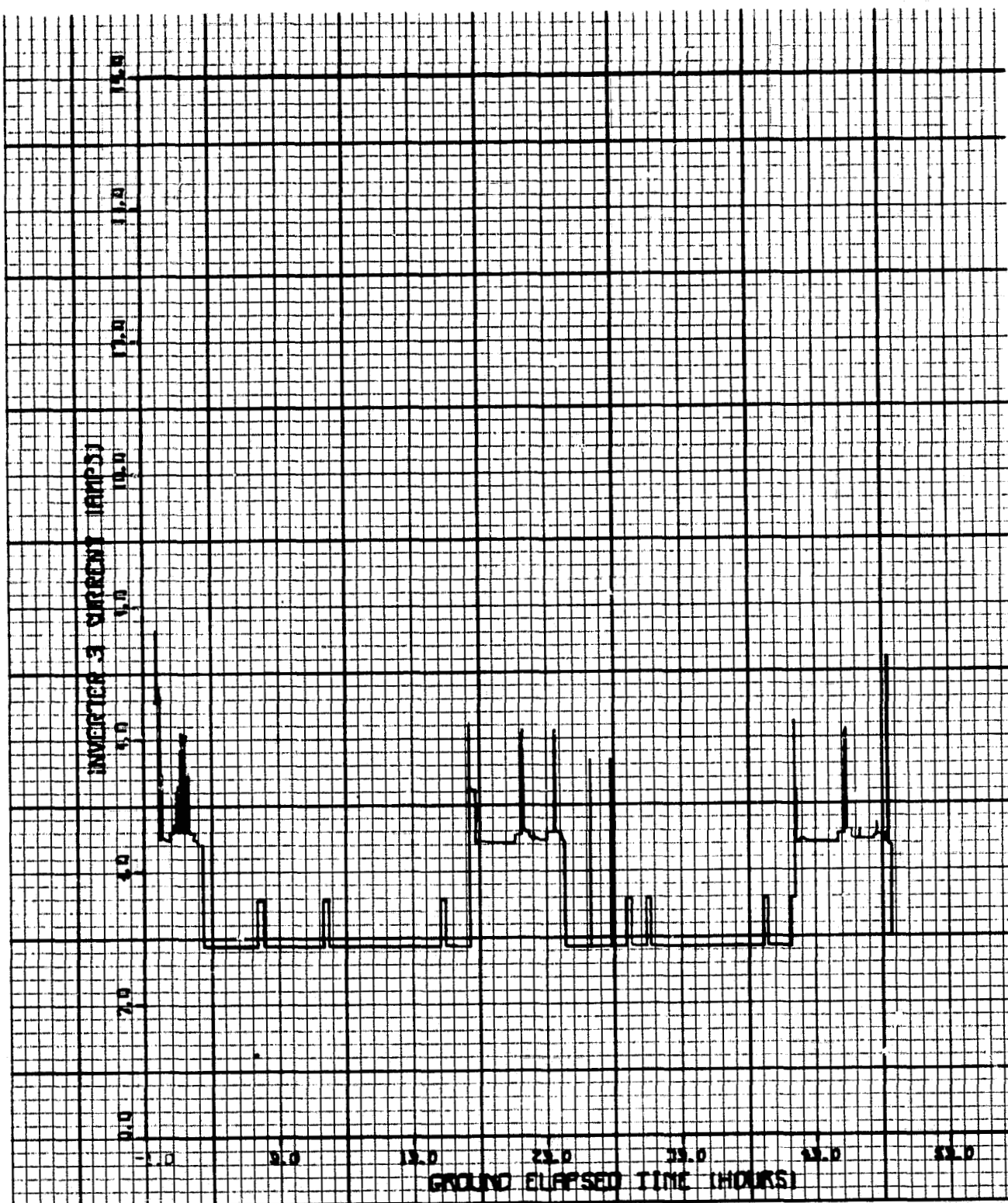


Figure 6.1-77.- Inverter 3 current

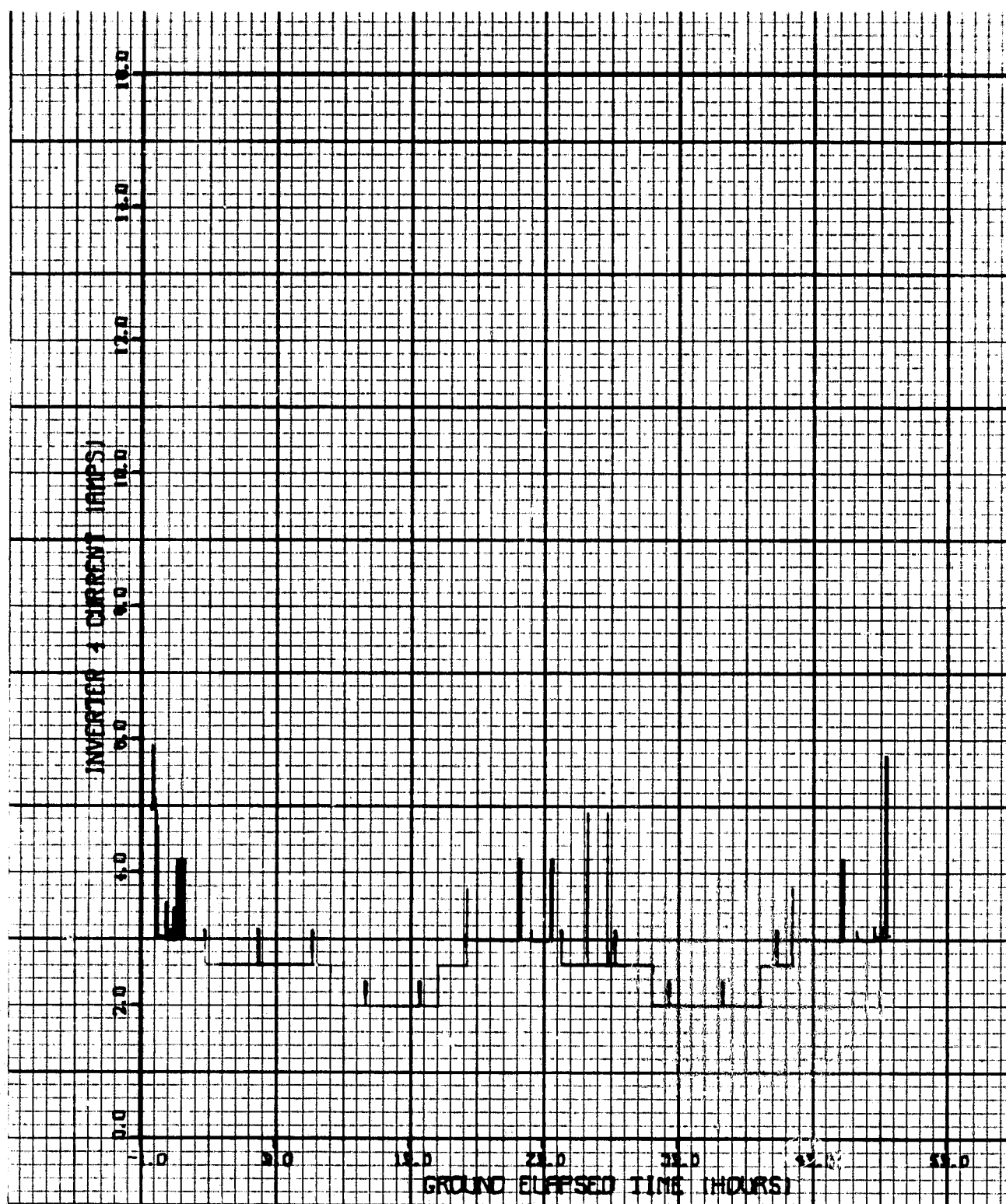


Figure 6.1-78.- Inverter 4 current

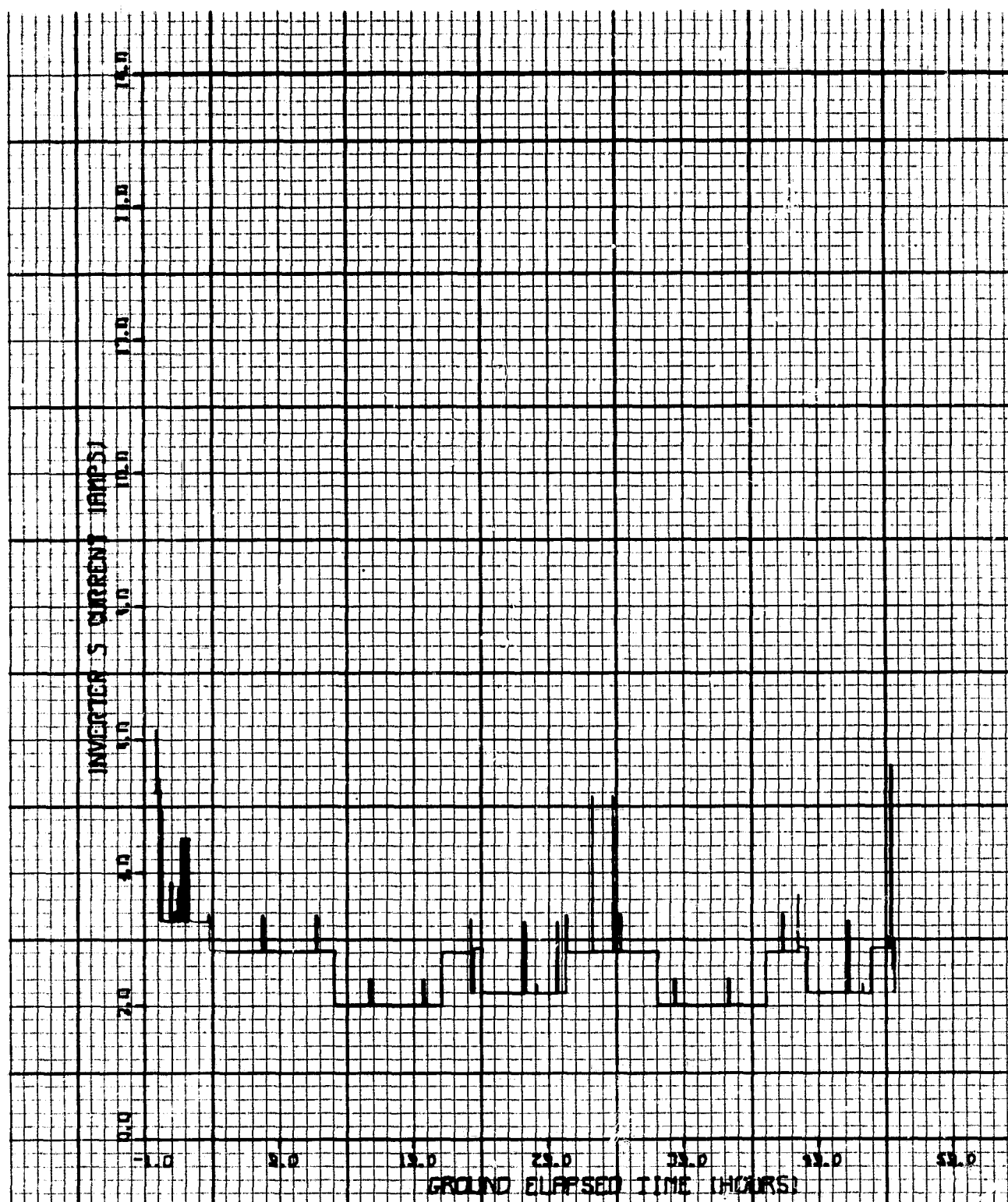


Figure 6.1-79.- Inverter 5 current

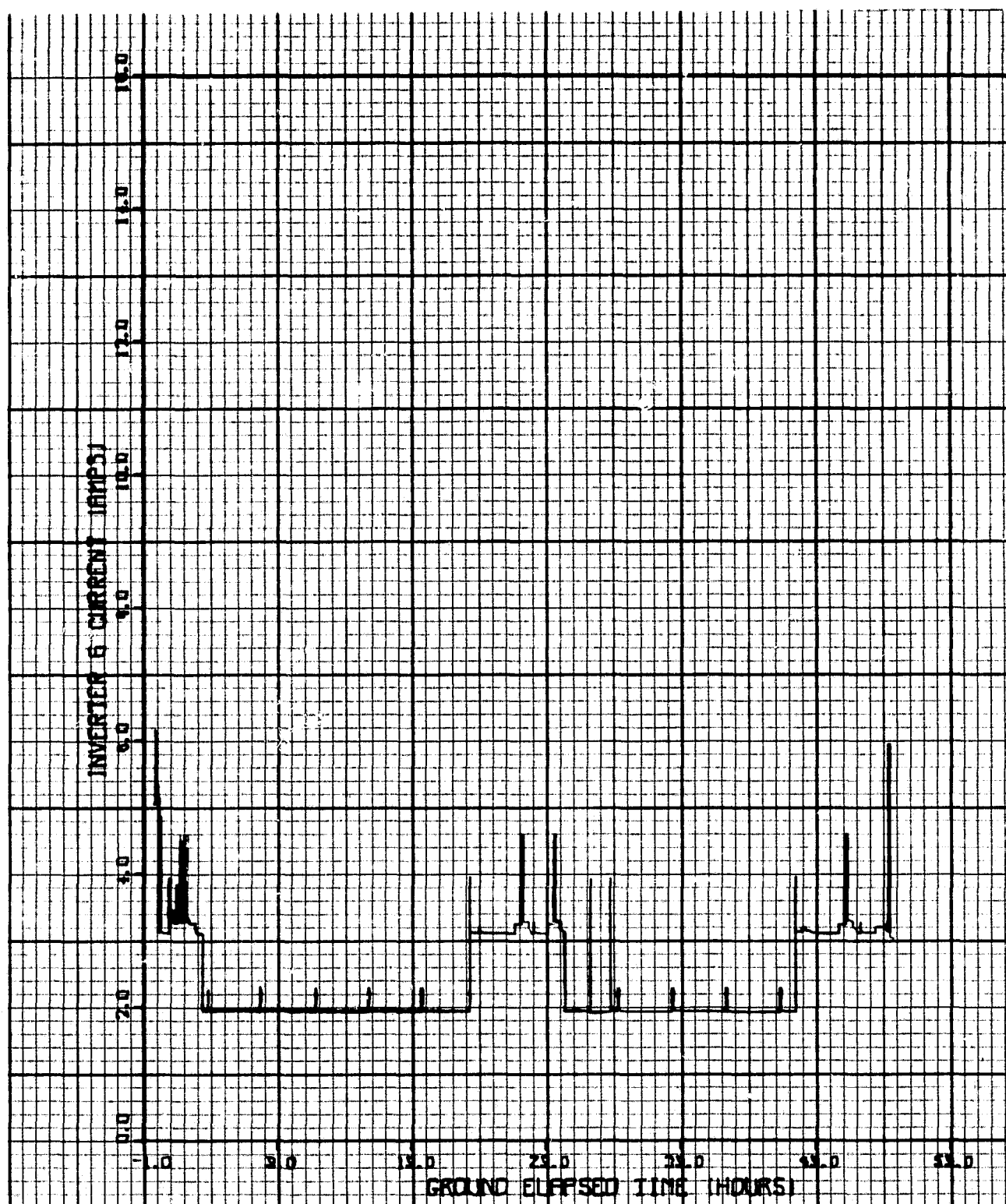


Figure 6.J-80.- Inverter 6 current

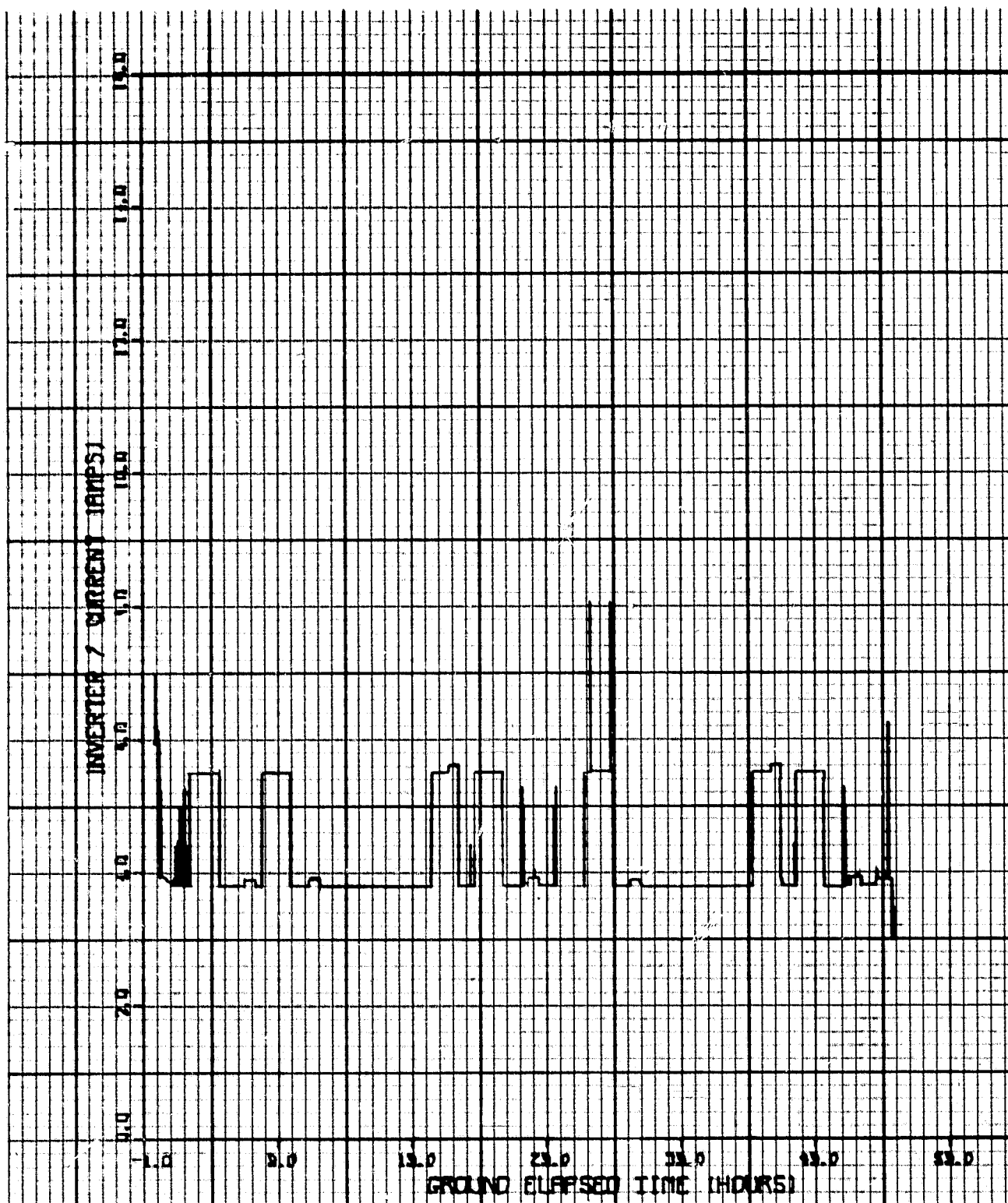


Figure 6.1-81.- Inverter 7 current



Figure 6.1-82.- Inverter 8 current

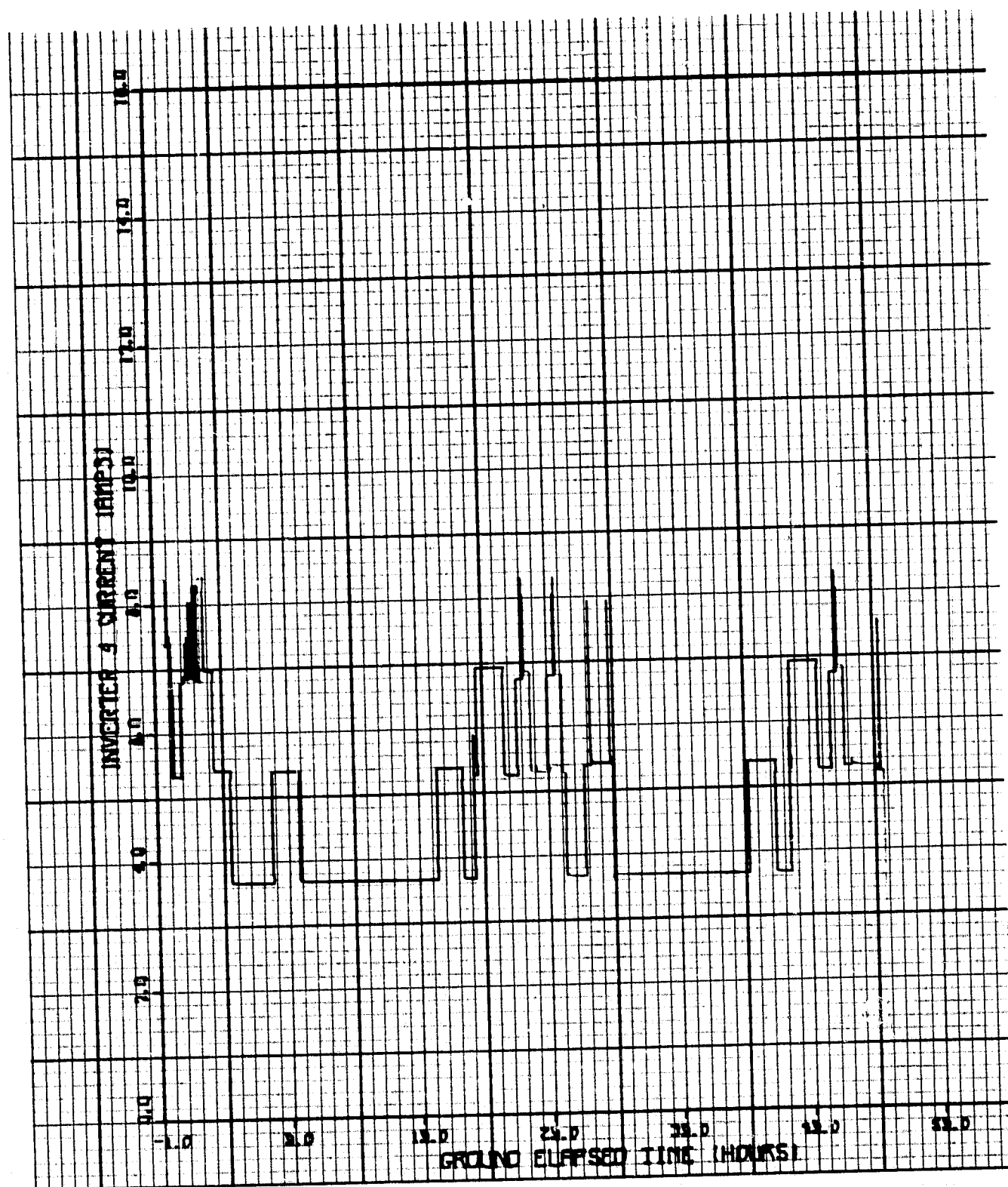


Figure 6.1-83.- Inverter 9 current

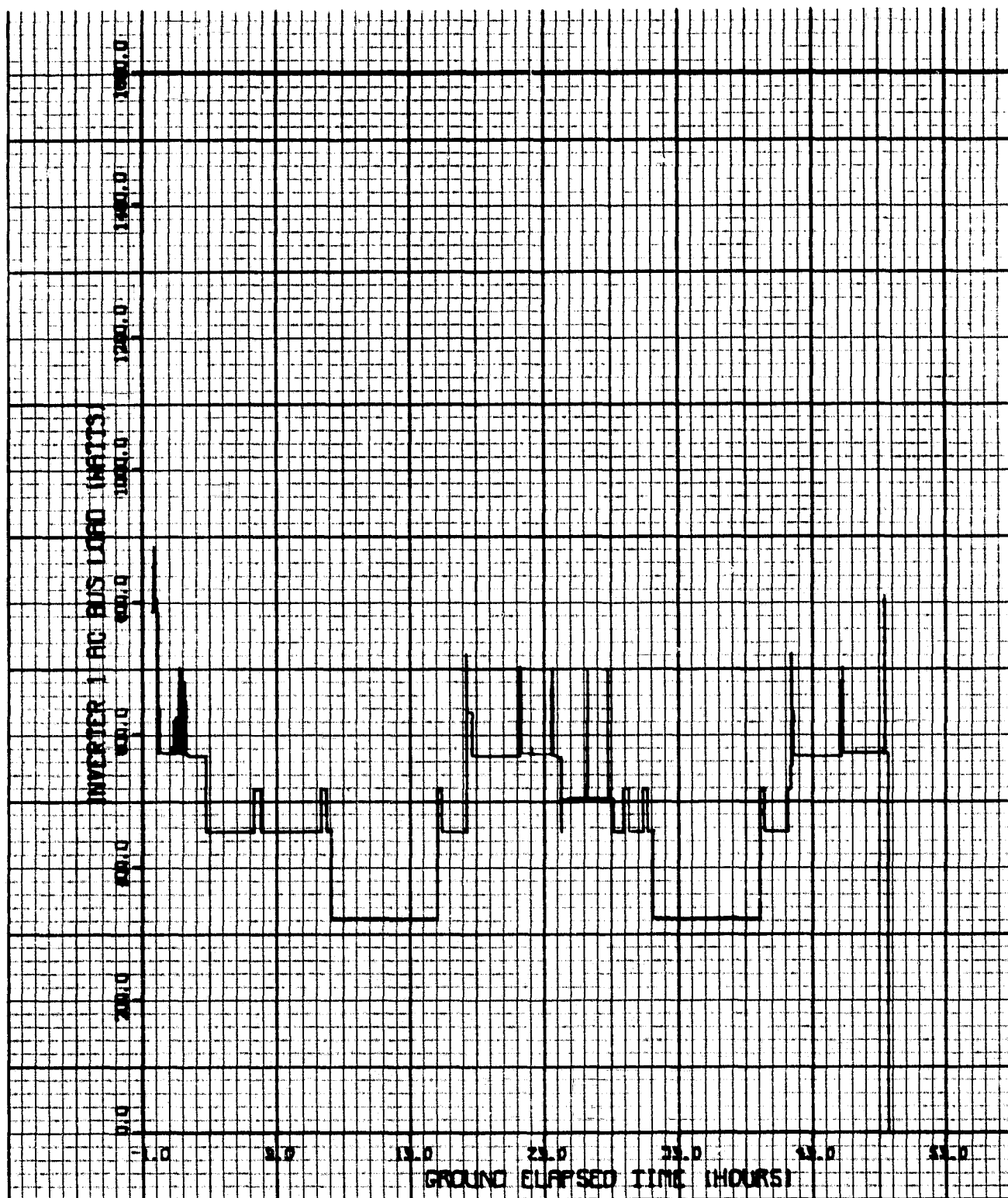


Figure 6.1-84.- Inverter 1 AC bus load

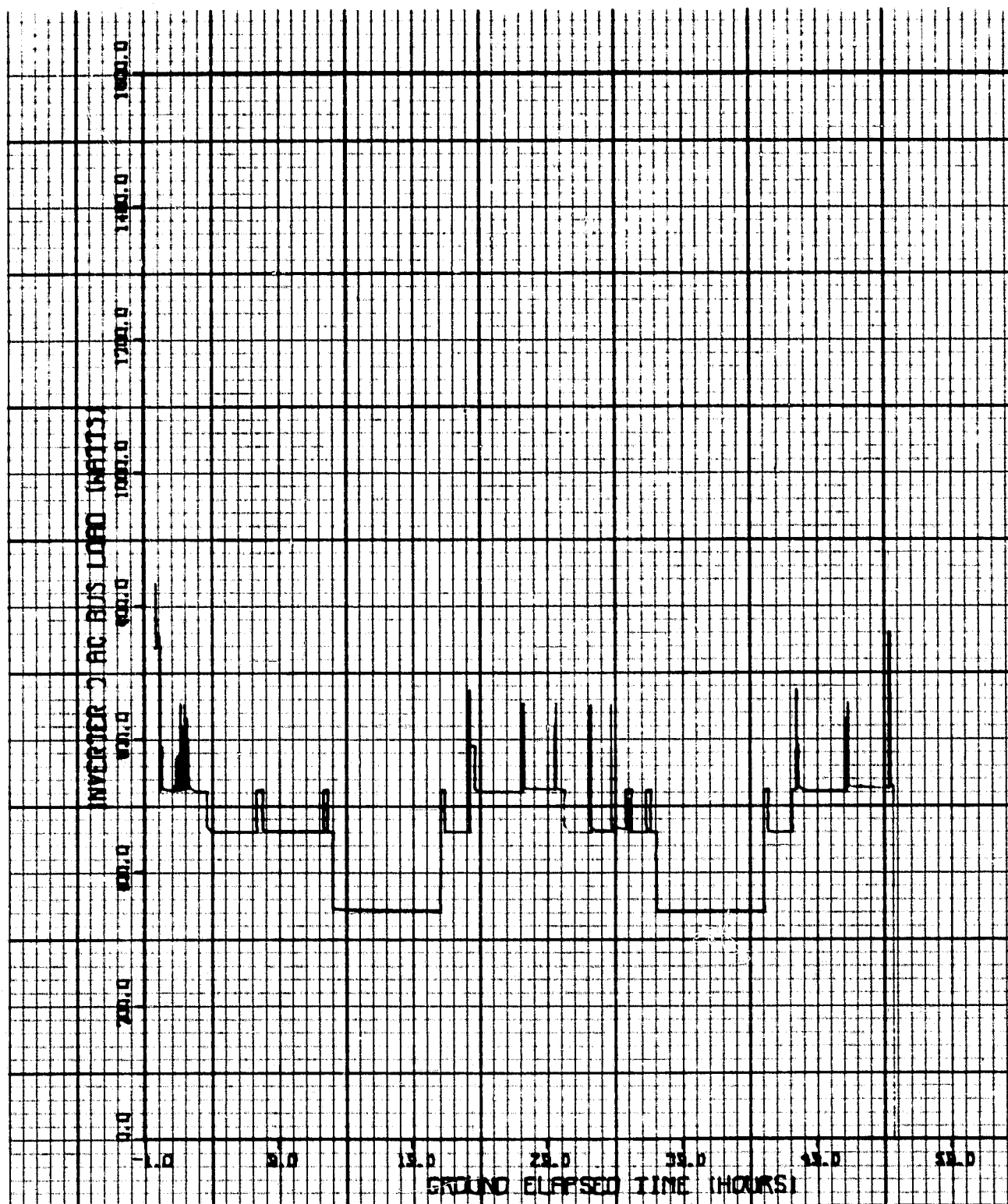


Figure 6.1-85.- Inverter 2 AC bus load

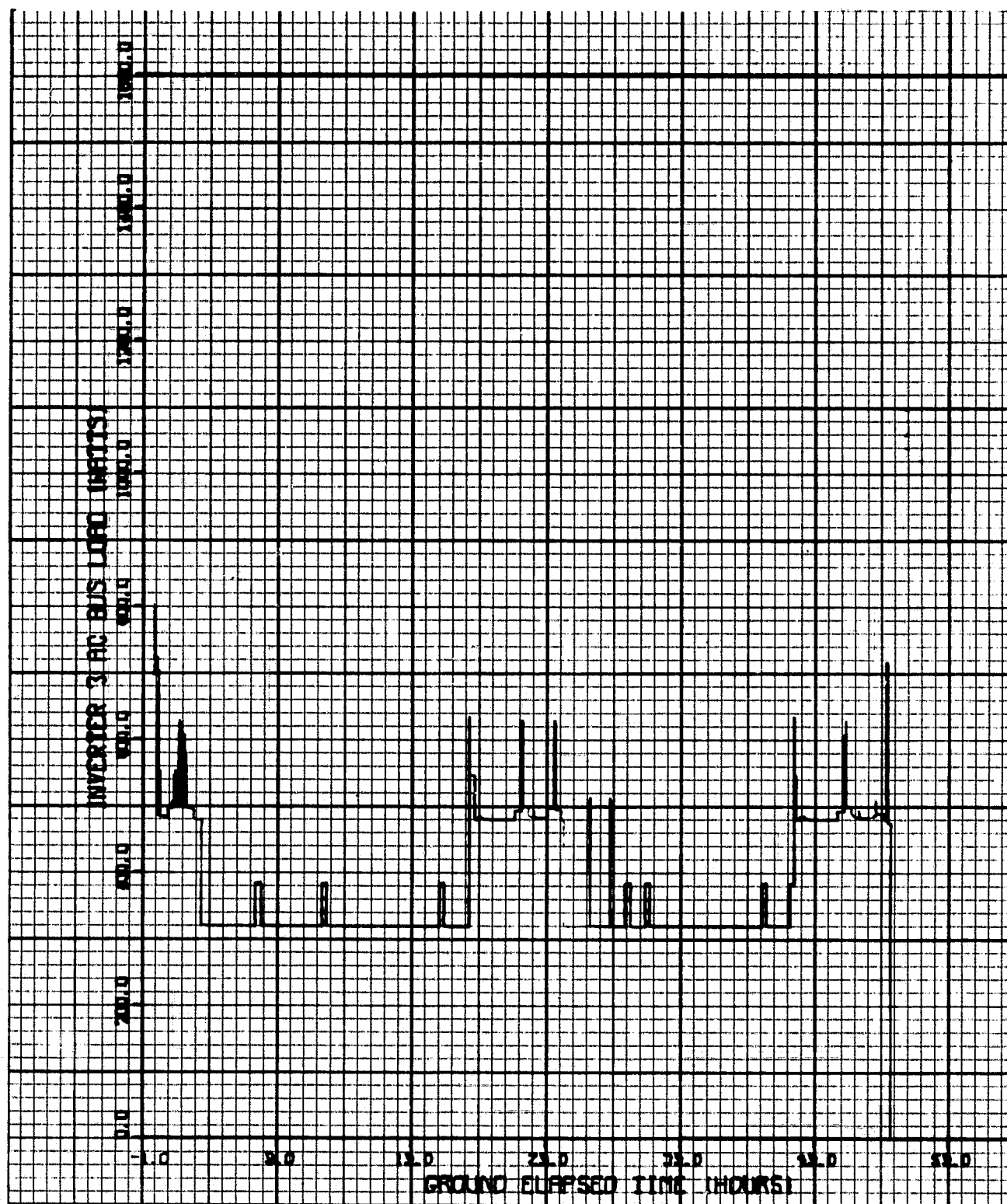


Figure 6.1-86.- Inverter 3 AC bus load

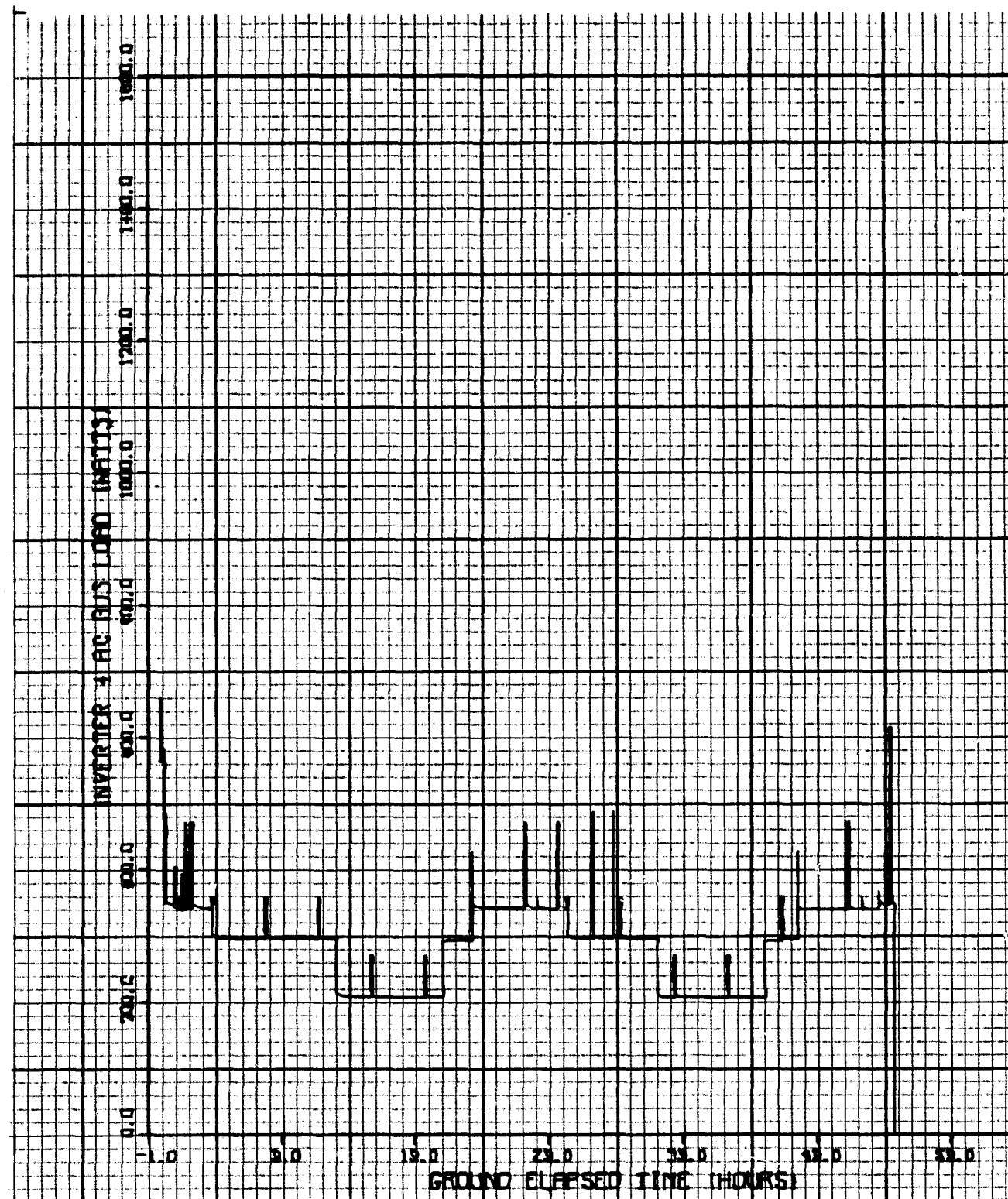


Figure 6.1-87.- Inverter 4 AC bus load

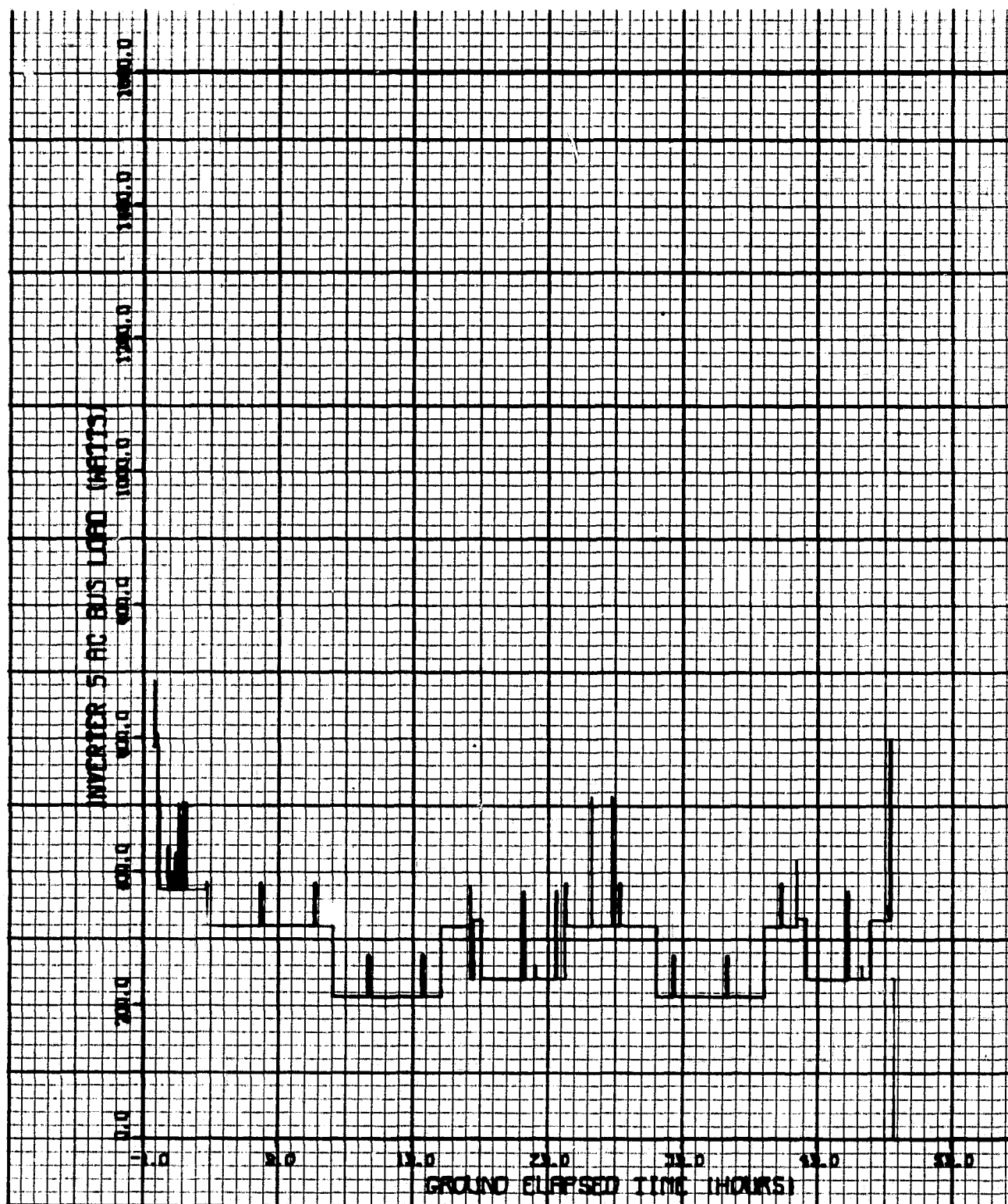


Figure 6.1-88.- Inverter 5 AC bus load

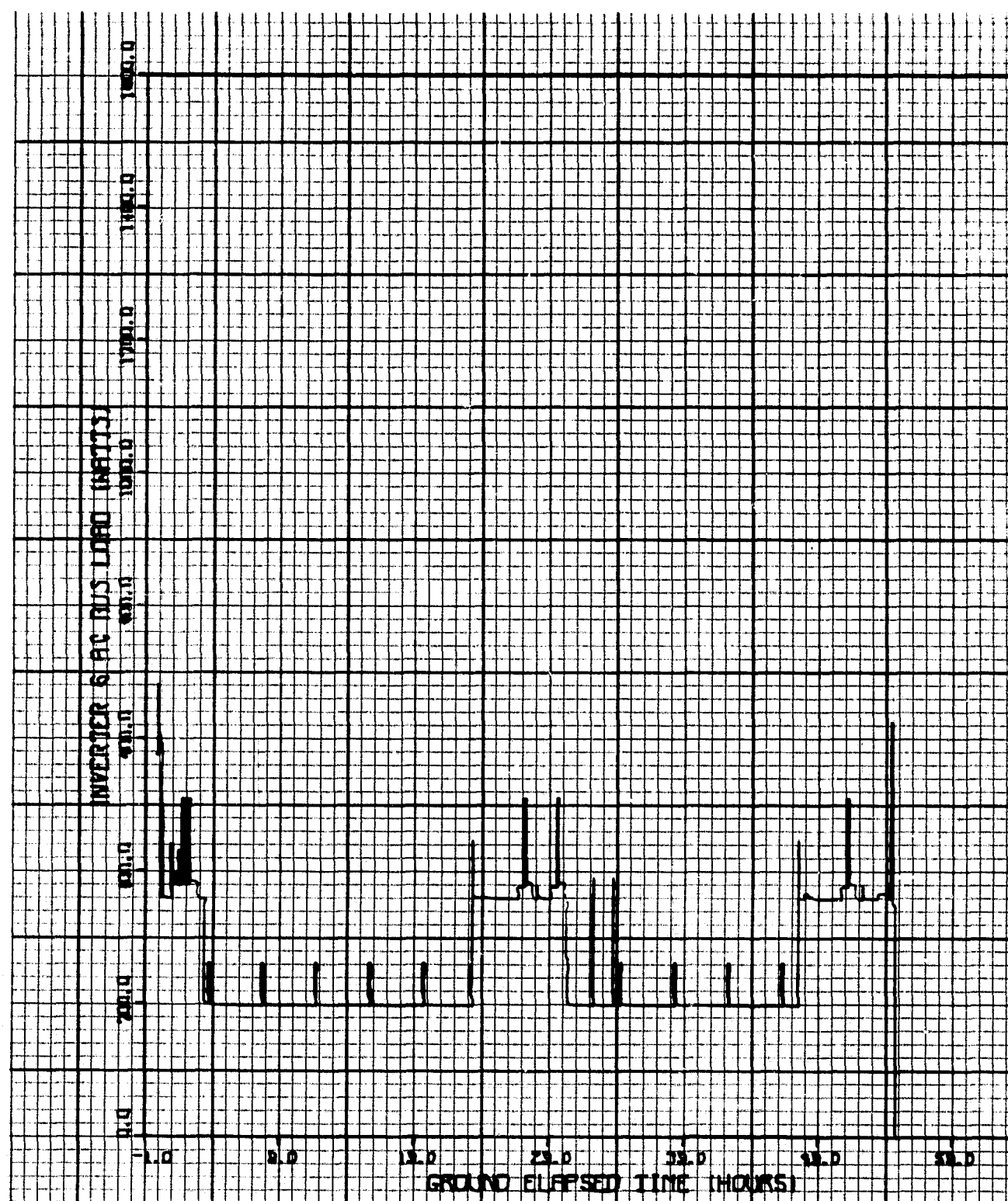


Figure 6.1-89.- Inverter 6 AC bus load

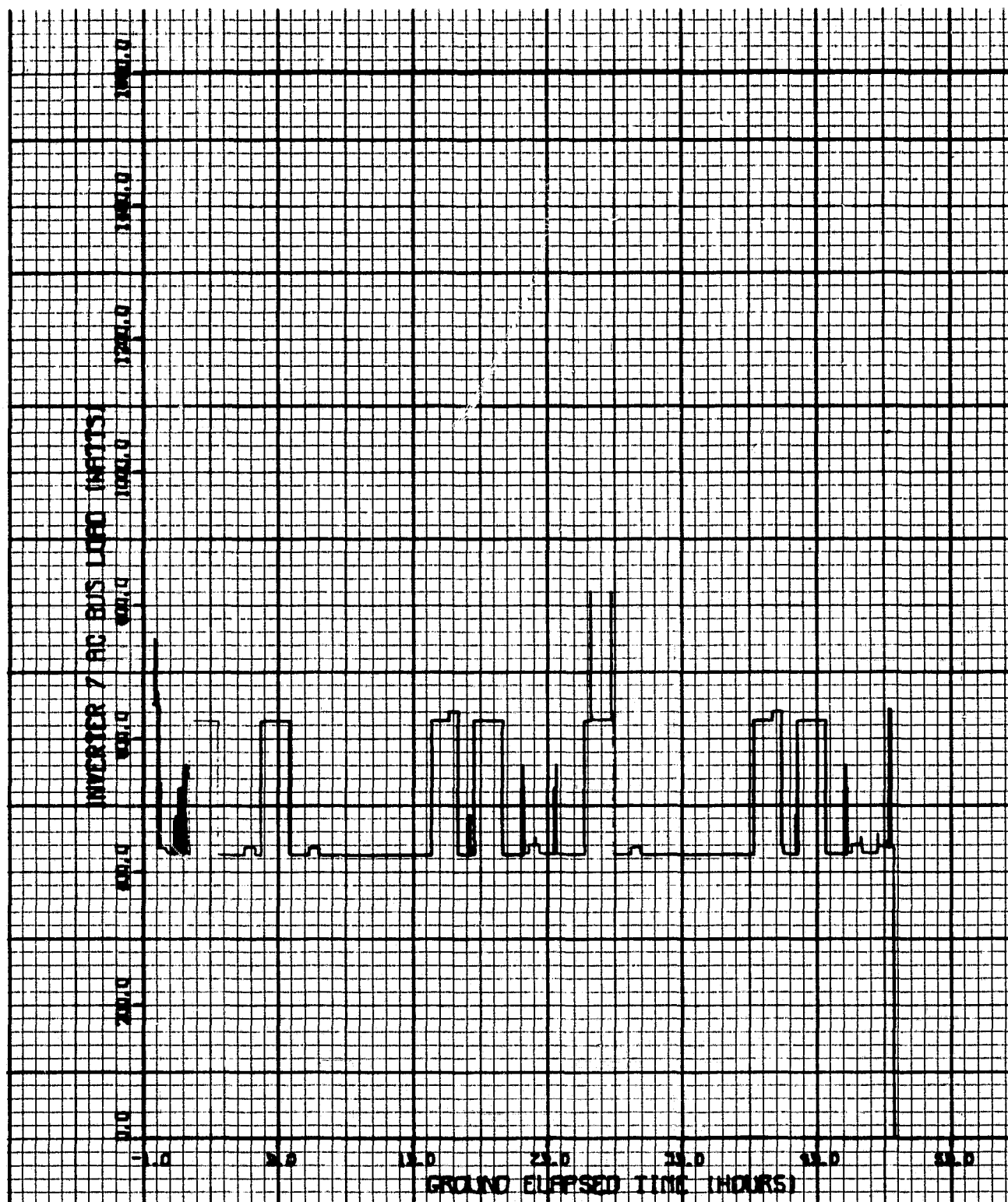


Figure 6.1-90.- Inverter 7 AC bus load



Figure 6.1-91.- Inverter 8 AC bus load

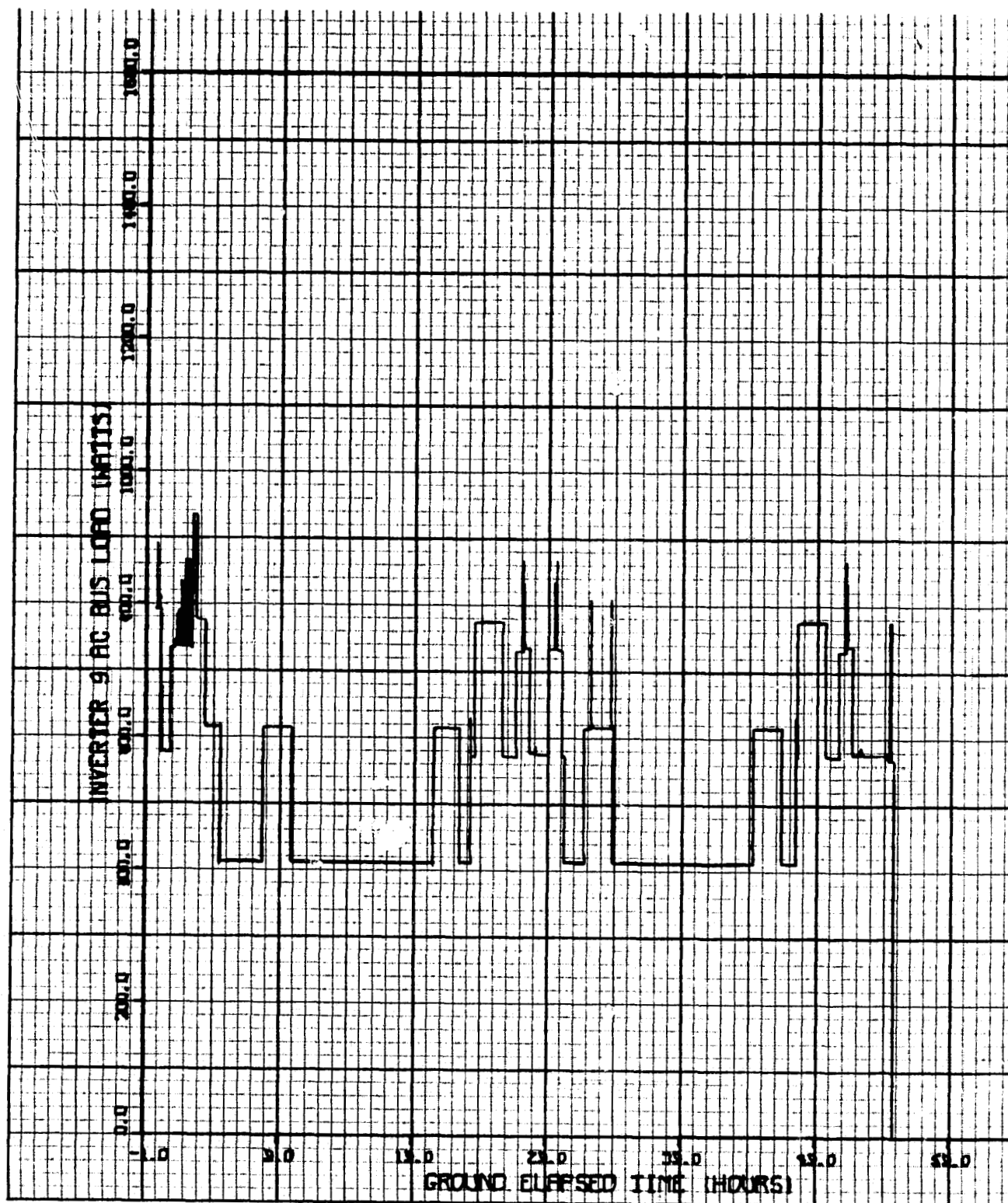


Figure 6.1-02.- Inverter 9 AC bus load

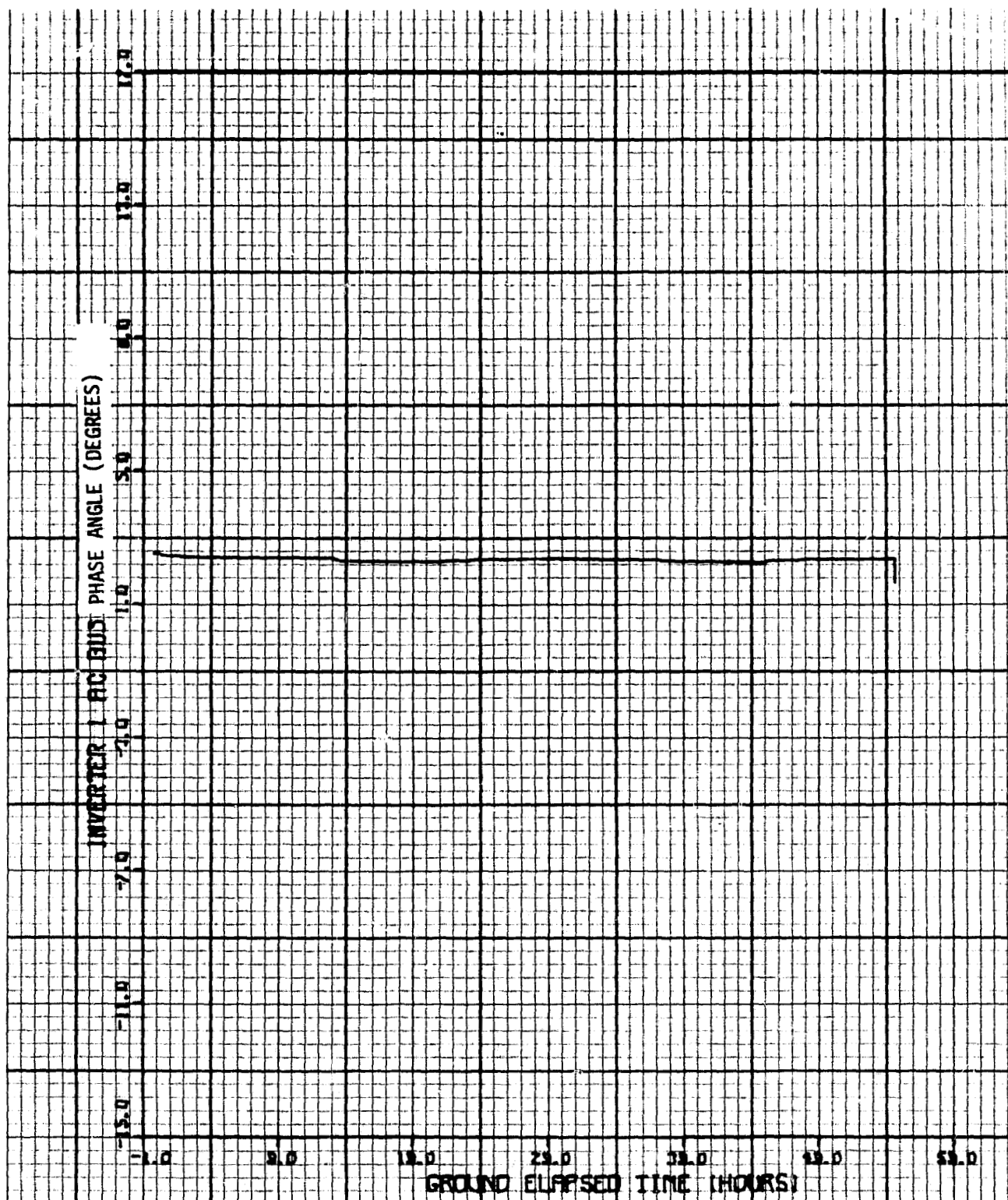


Figure 6.1-93.- Inverter 1 AC bus phase angle

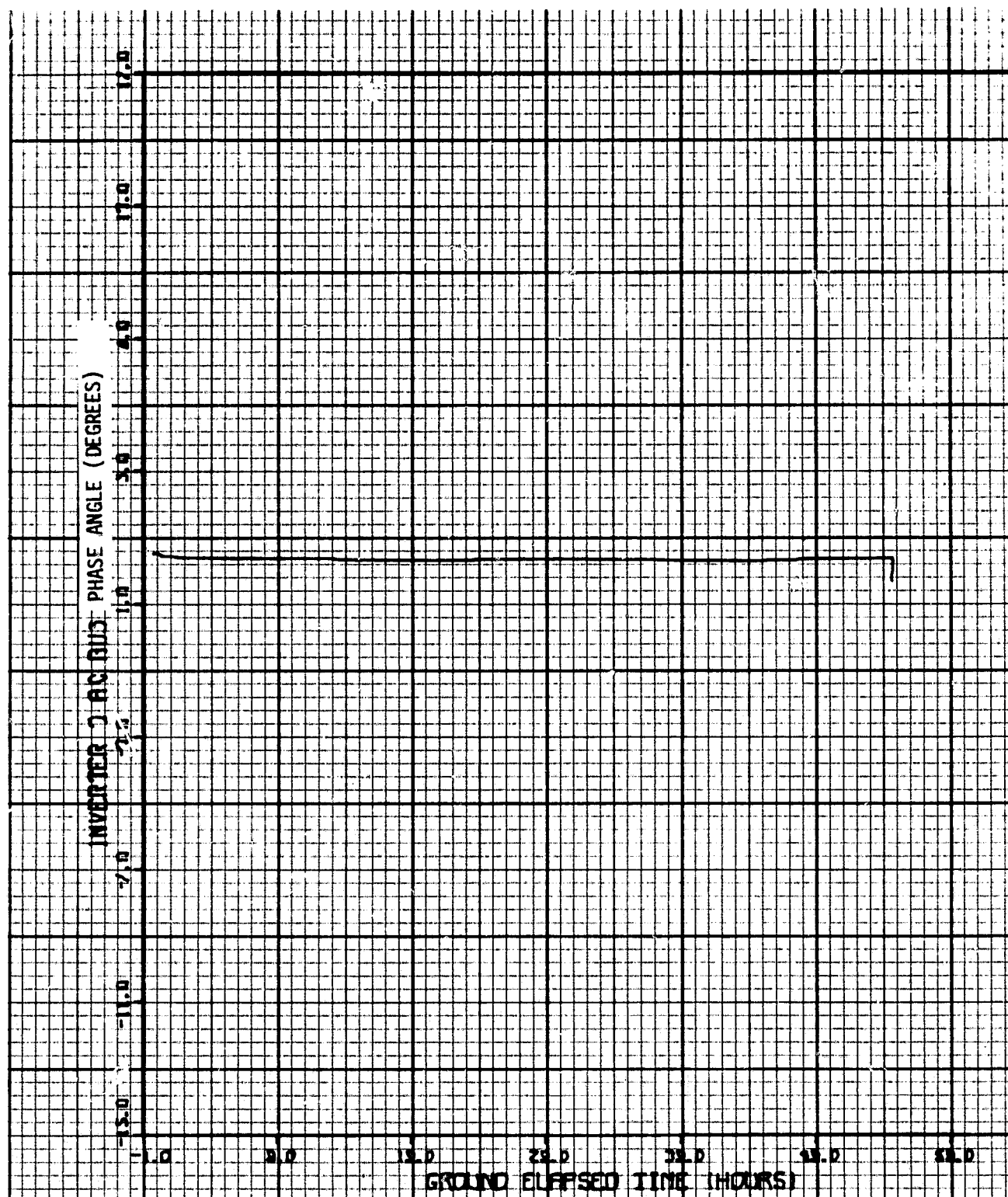


Figure 6.1-94.- Inverter 2 AC bus phase angle

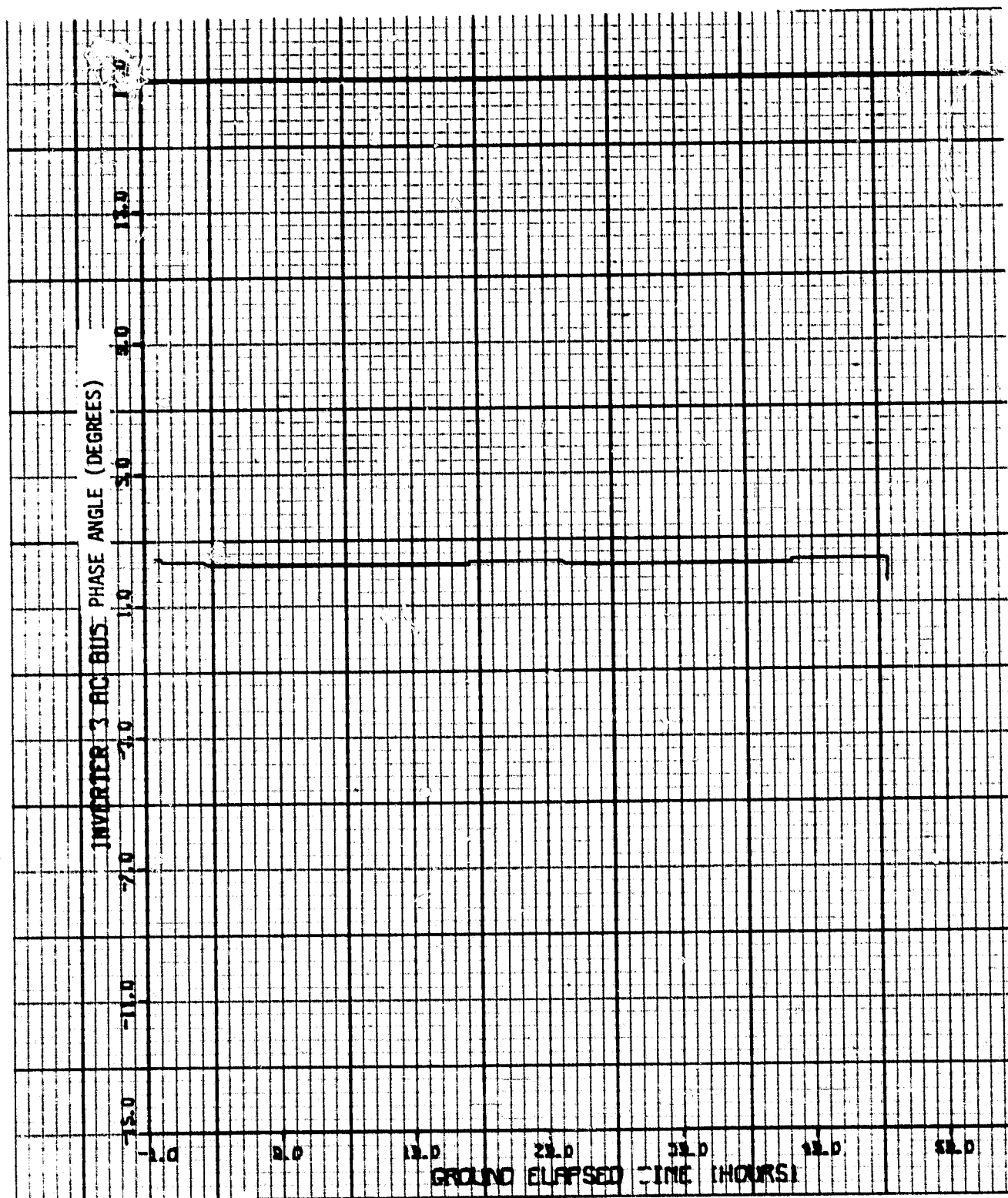


Figure 6.1-95.- Inverter 3 AC bus phase angle

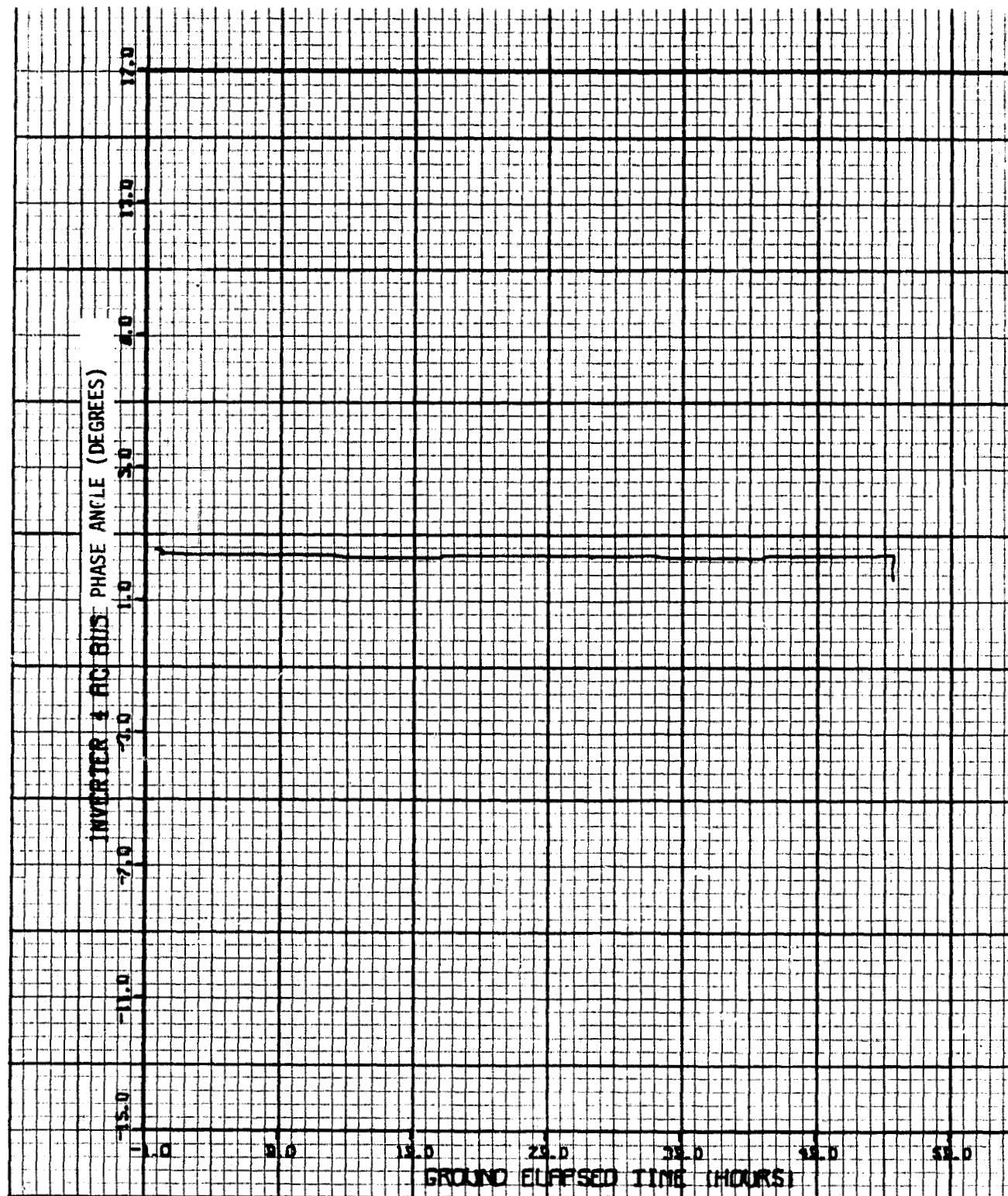


Figure 6.1-96.- Inverter 4 AC bus phase angle

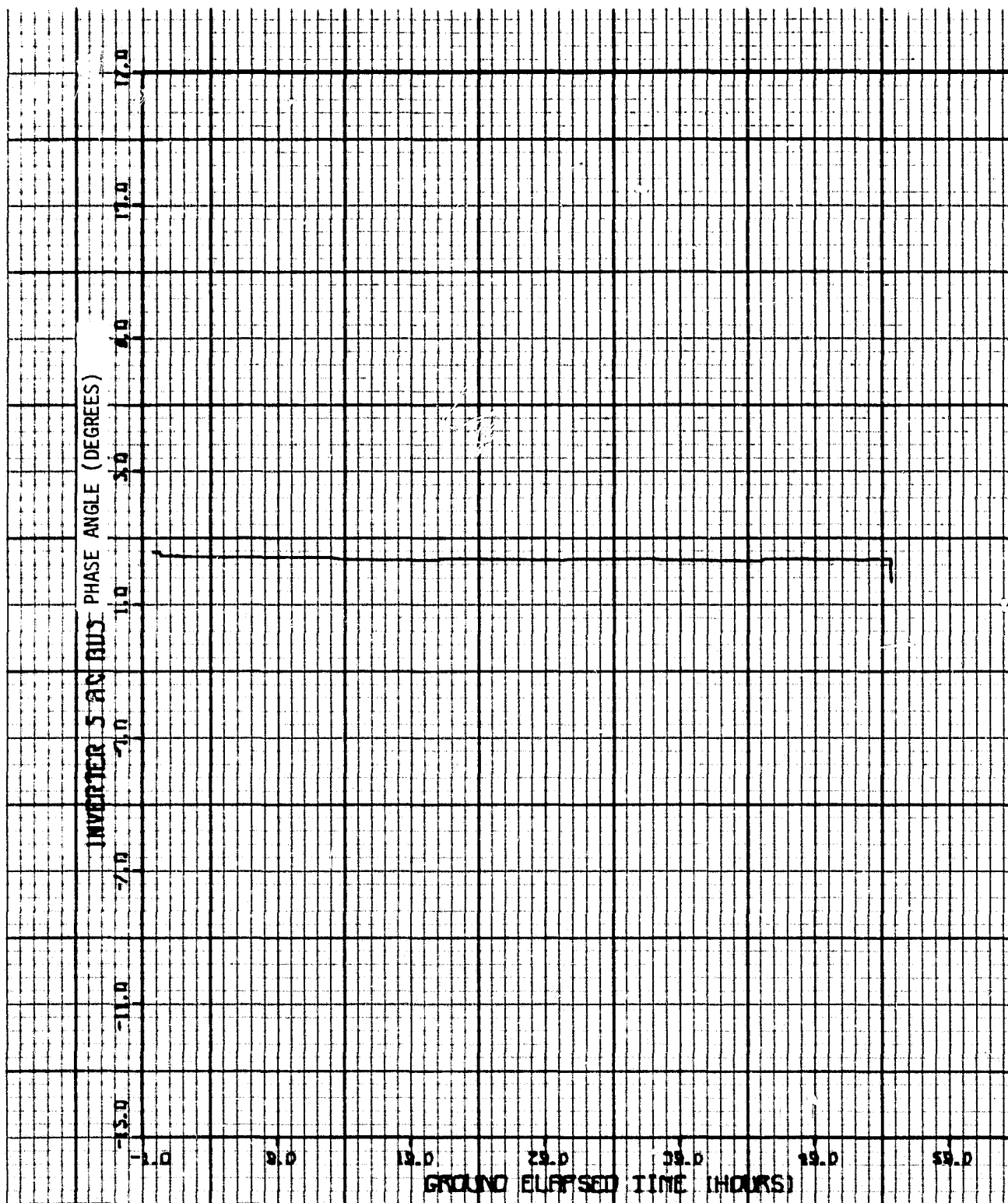


Figure 6.1-97.- Inverter 5 AC bus phase angle

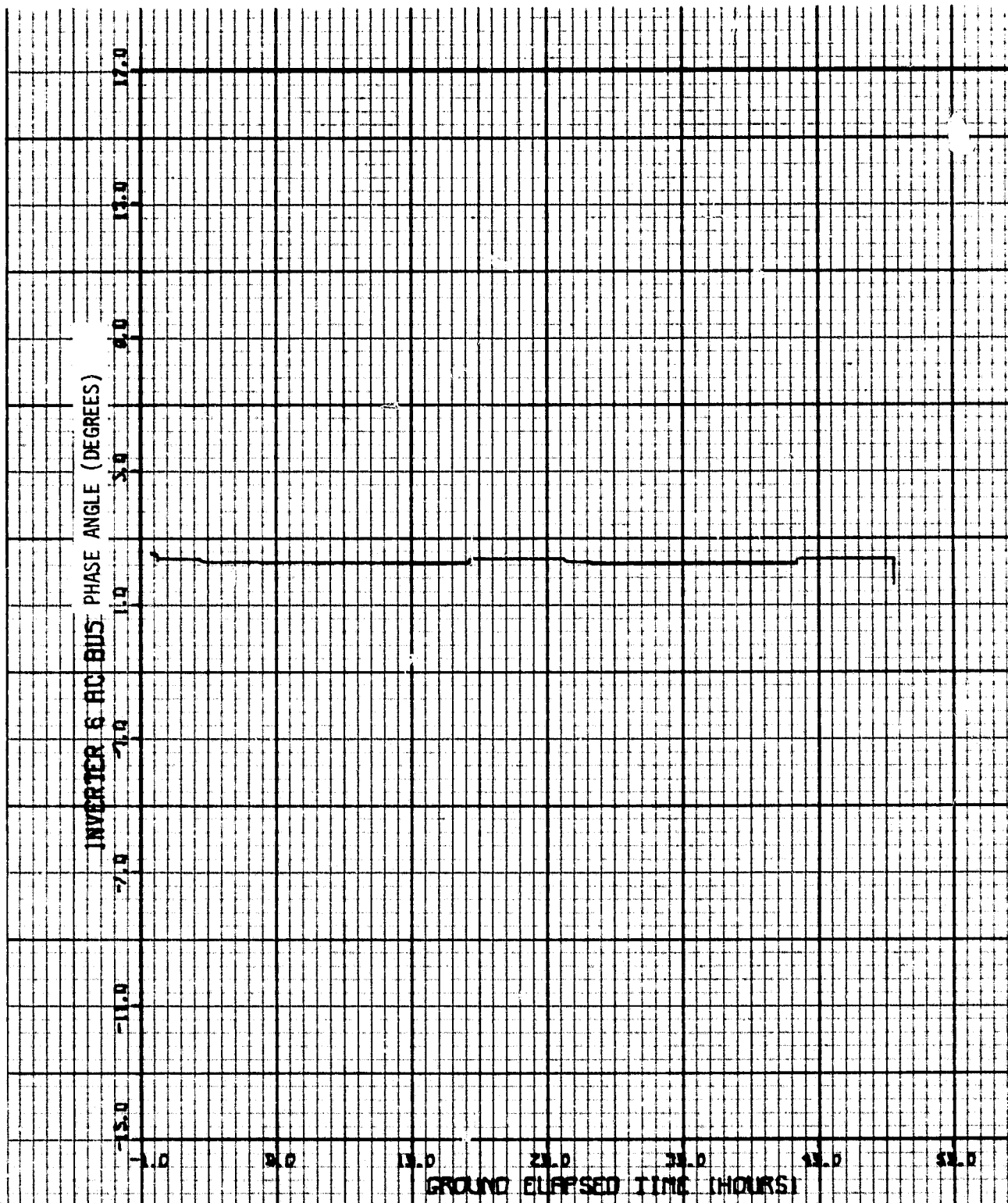


Figure 6.1-08.- Inverter 6 AC bus phase angle

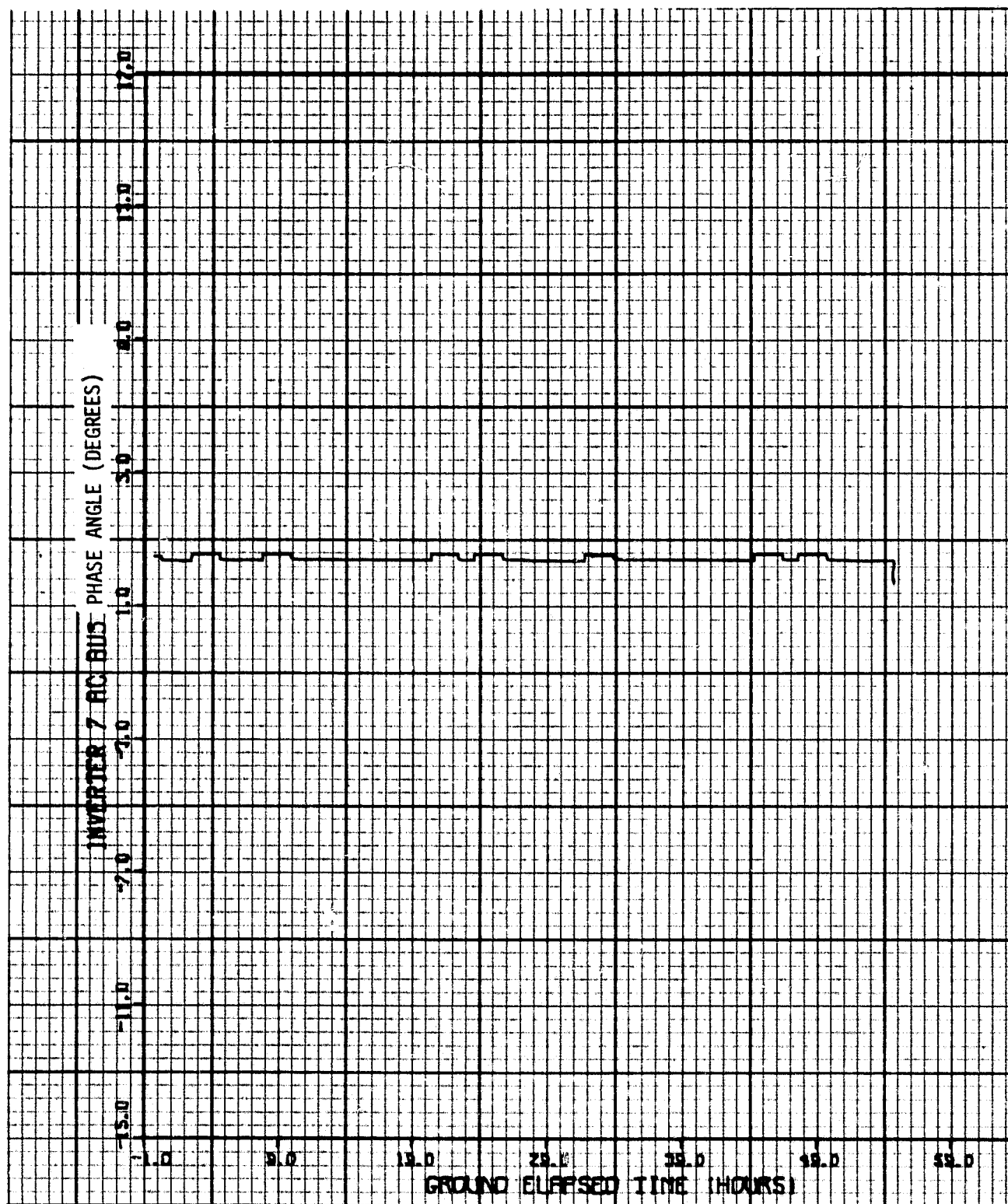


Figure 6.1-99.- Inverter 7 AC bus phase angle

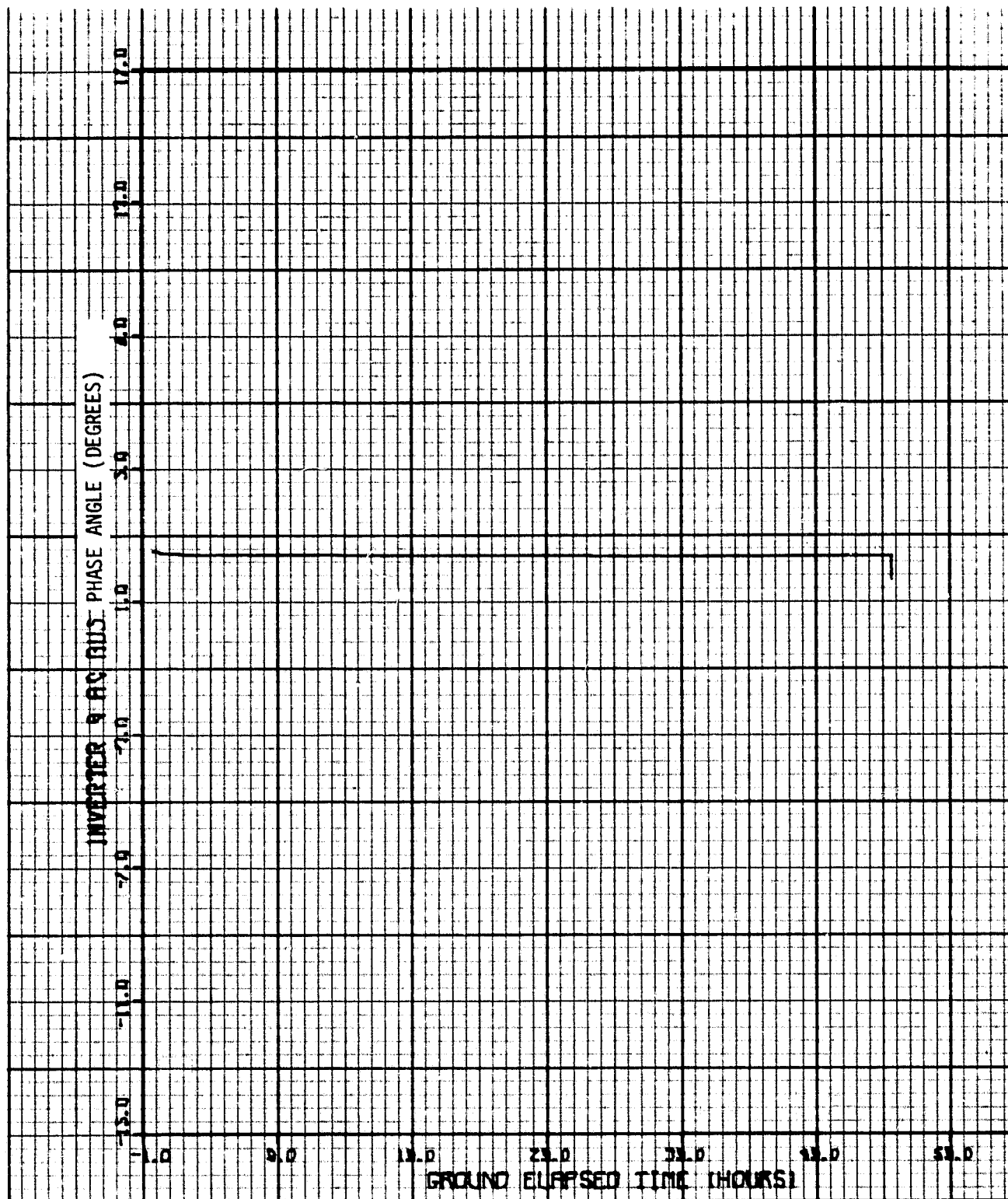


Figure 6.1-100.- Inverter 8 AC bus phase angle

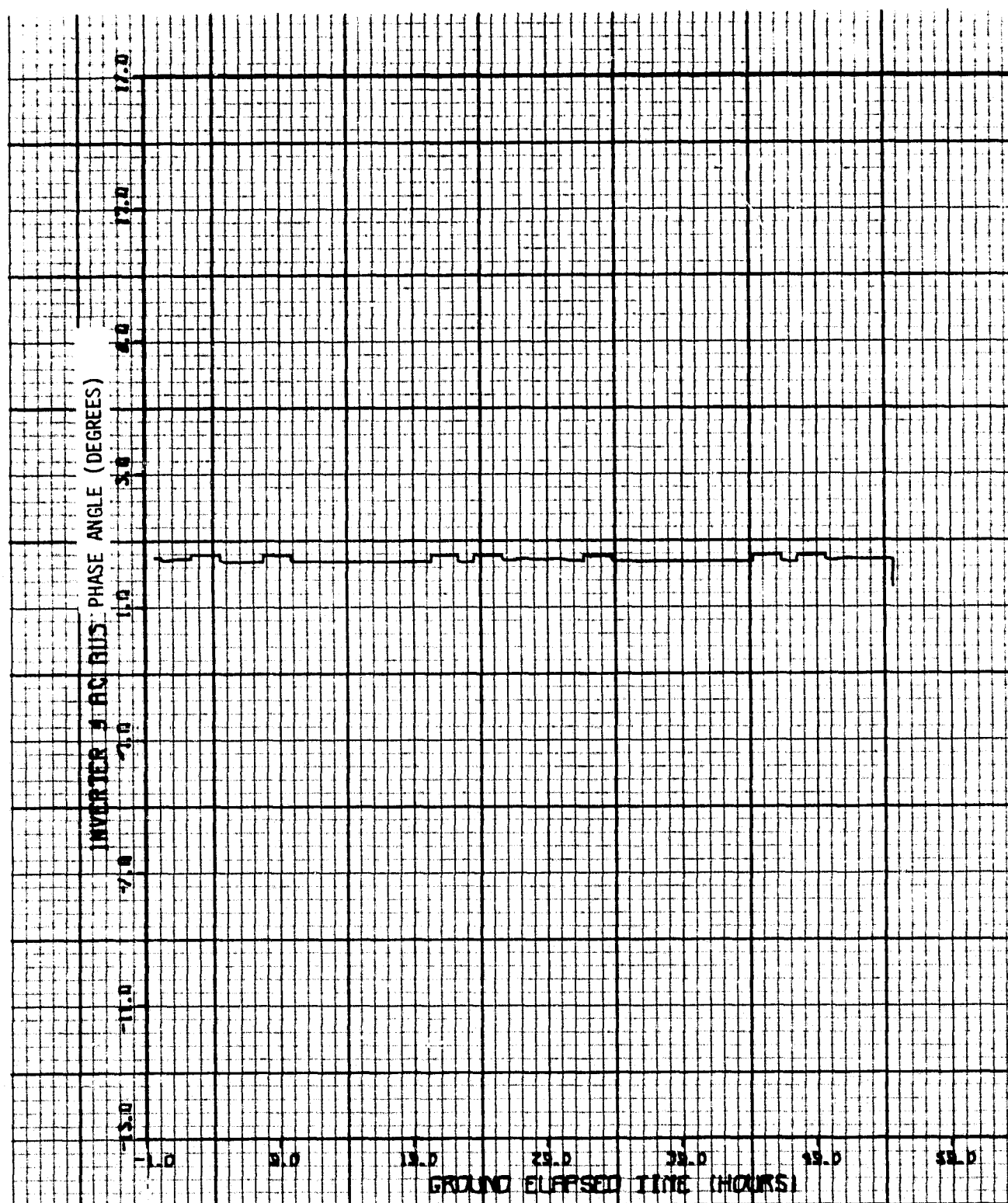


Figure 6.1-101.- Inverter 9 AC bus phase angle

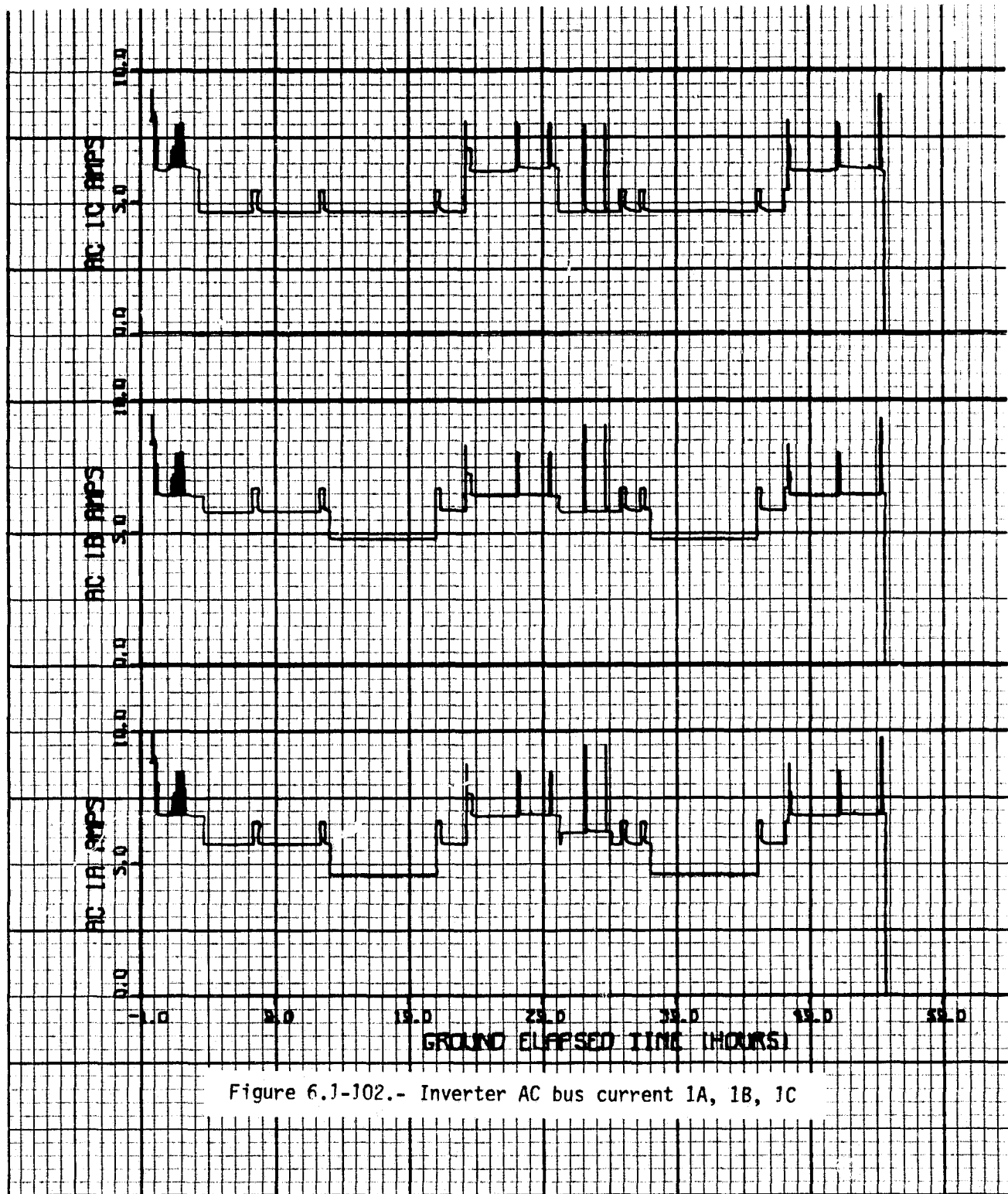
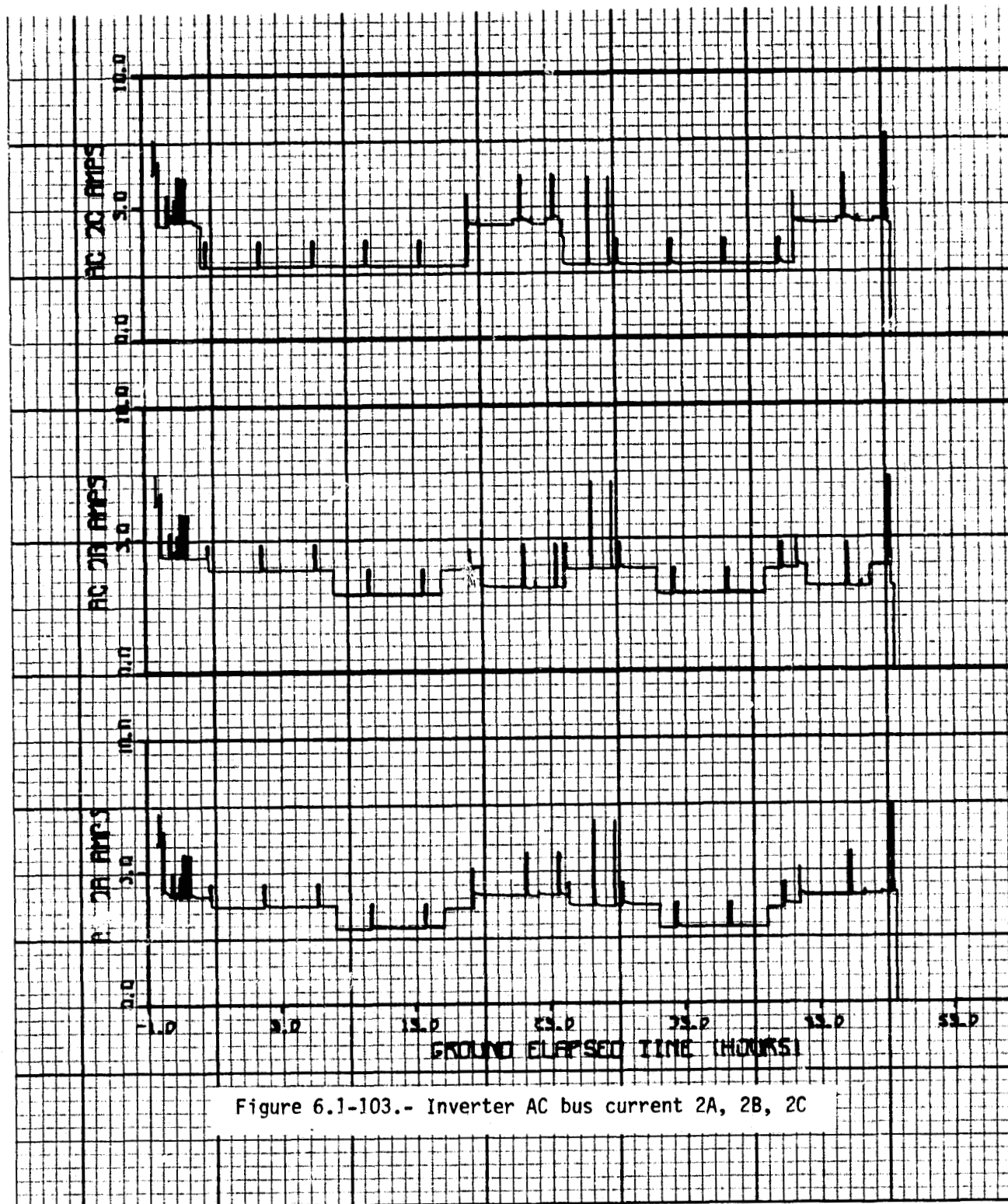


Figure 6.1-102.- Inverter AC bus current 1A, 1B, 1C



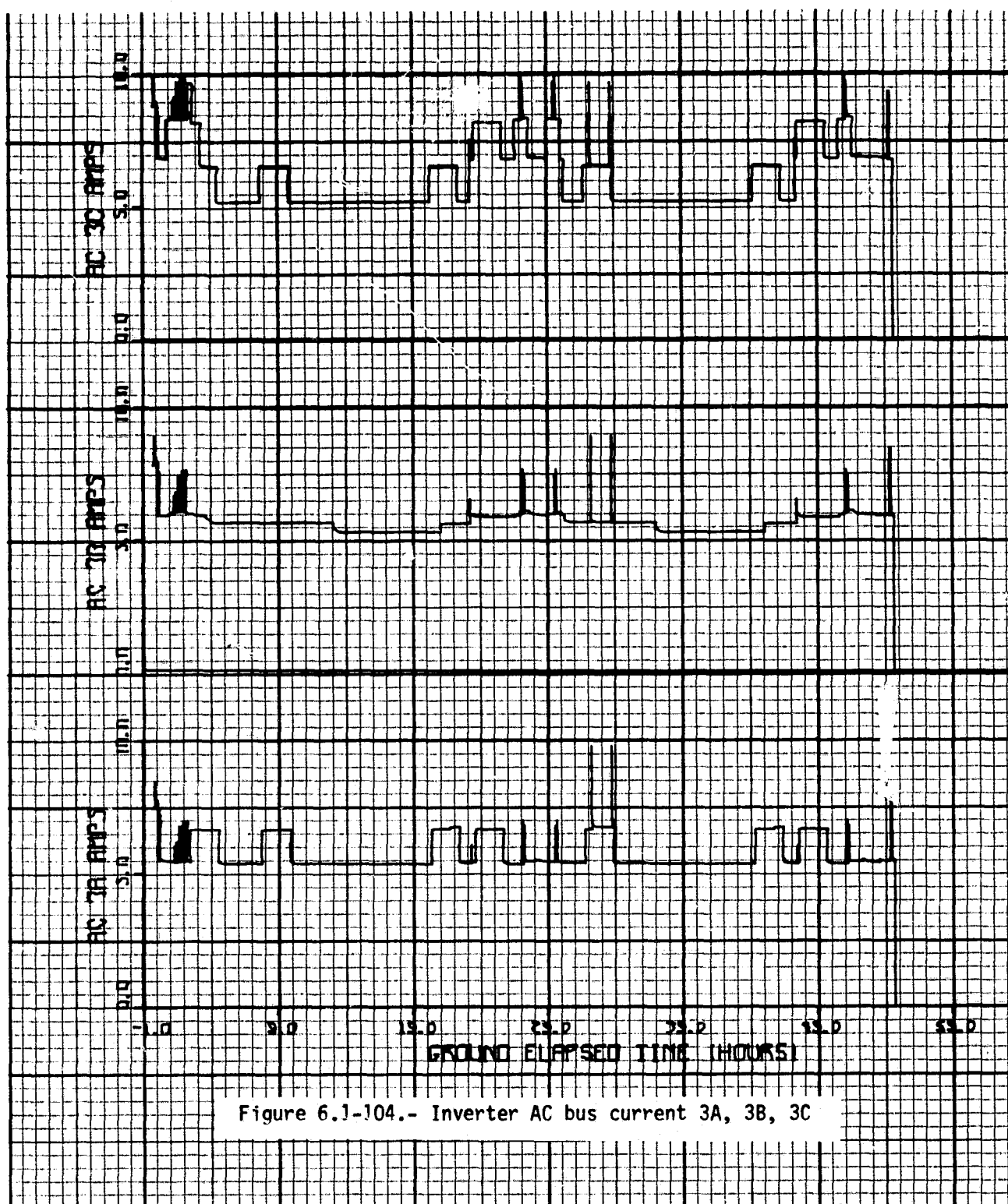


Figure 6.1-104.- Inverter AC bus current 3A, 3B, 3C

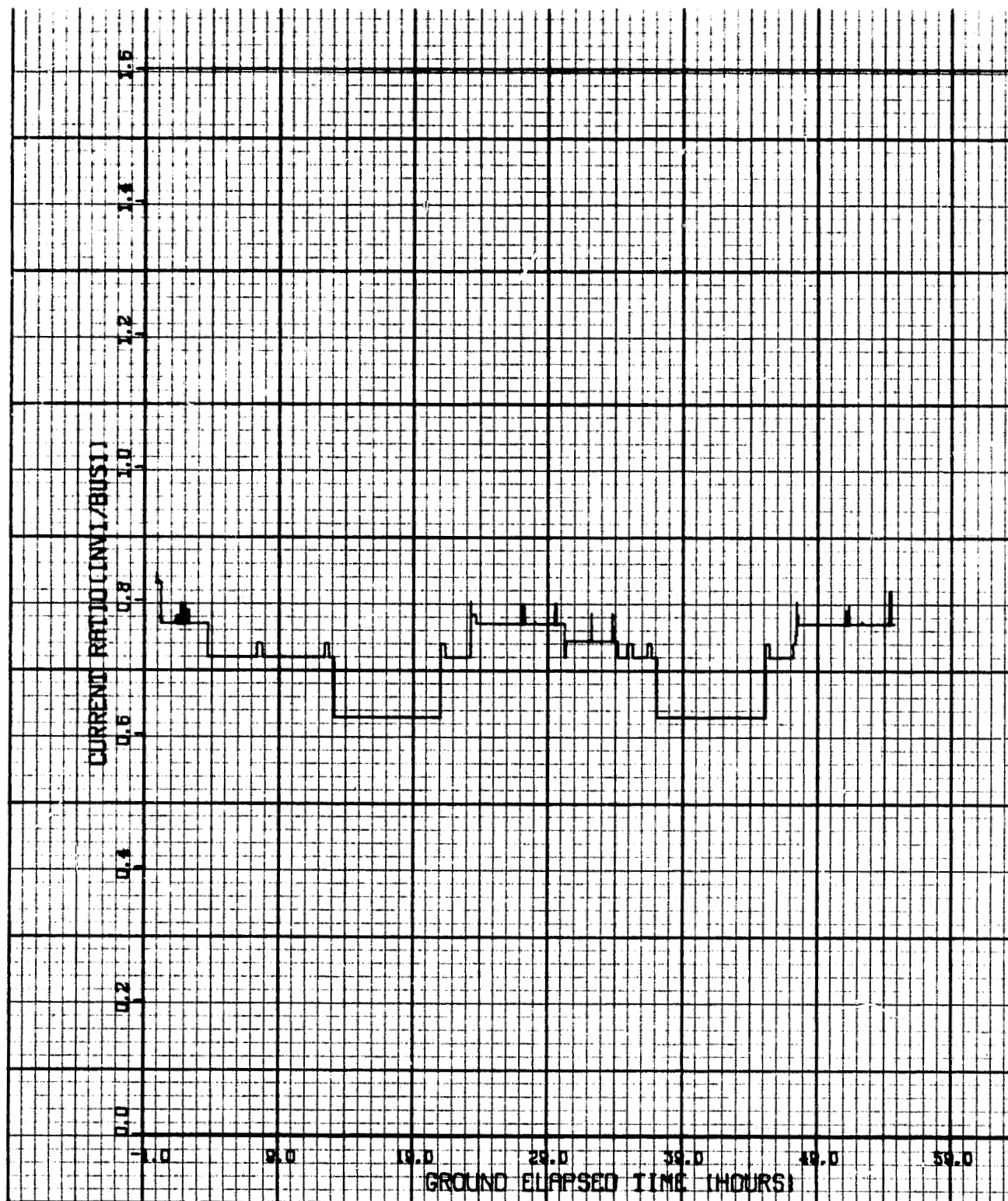


Figure 6.1-105.- Current ratio - Inverter 1/Bus 1



Figure 6.1-106.- Current ratio - Inverter 2/Bus 2

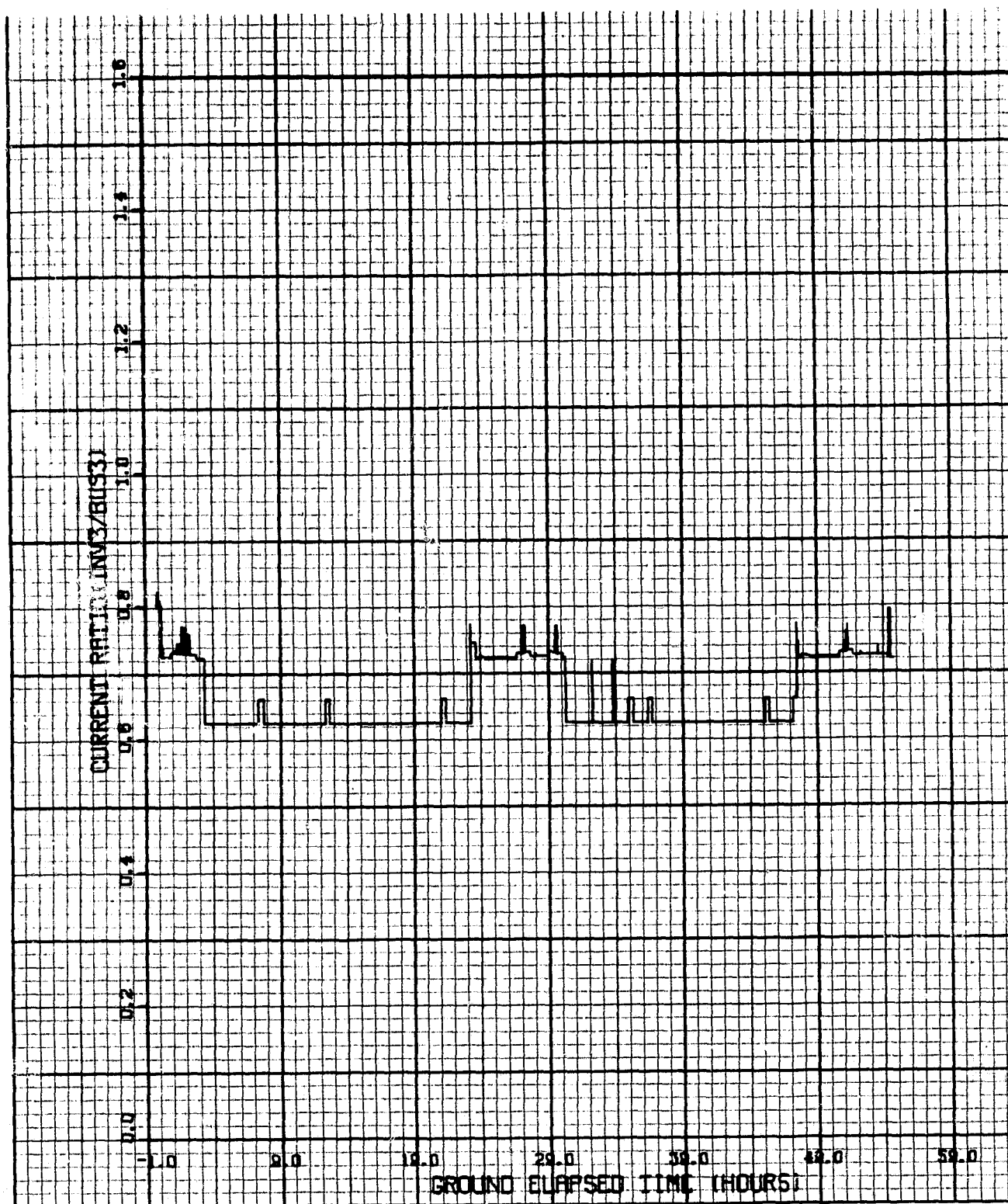


Figure 6.1-107.-Current ratio - Inverter 3/Bus 3

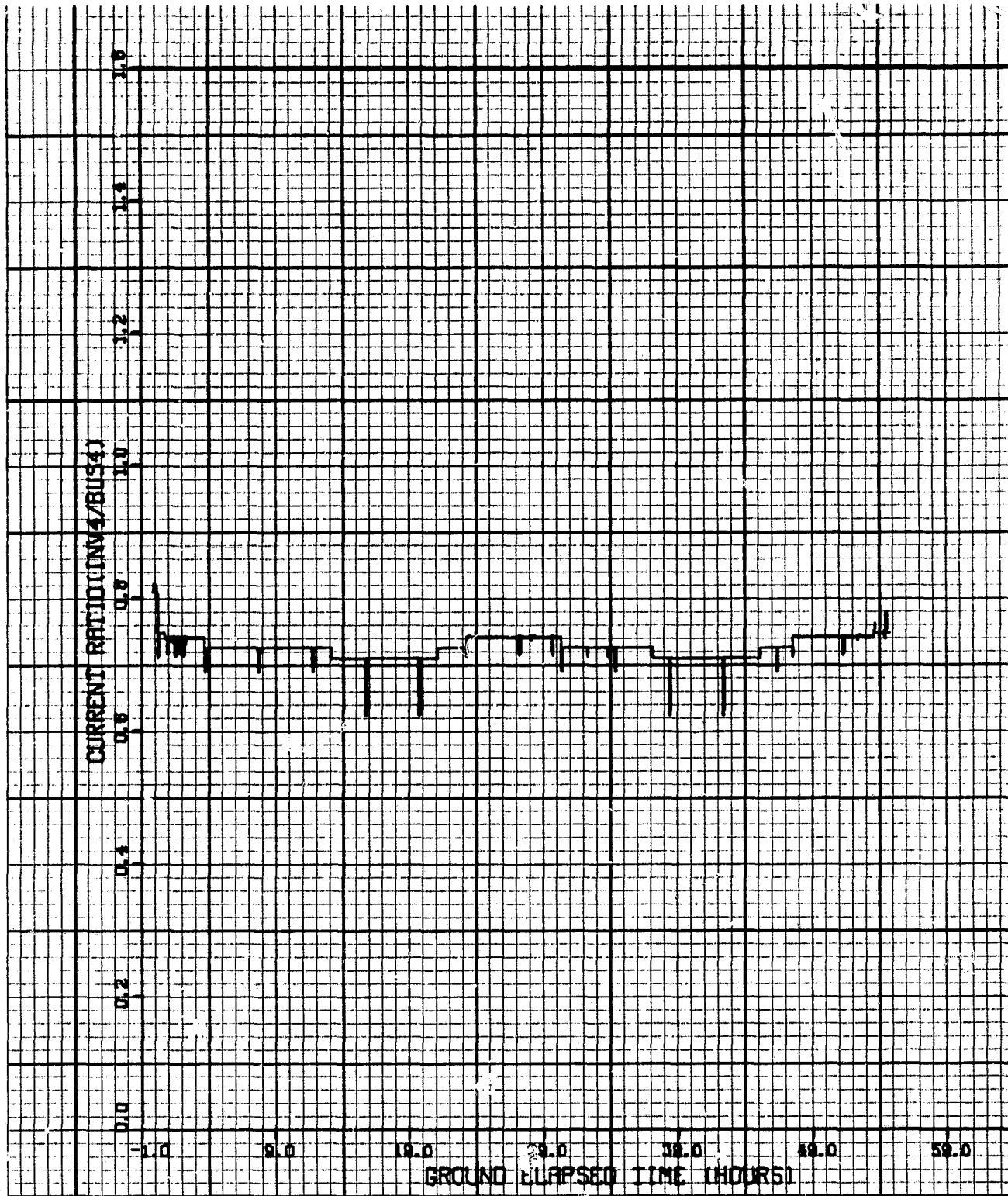


Figure 6.1-108.- Current ratio - Inverter 4/Bus 4

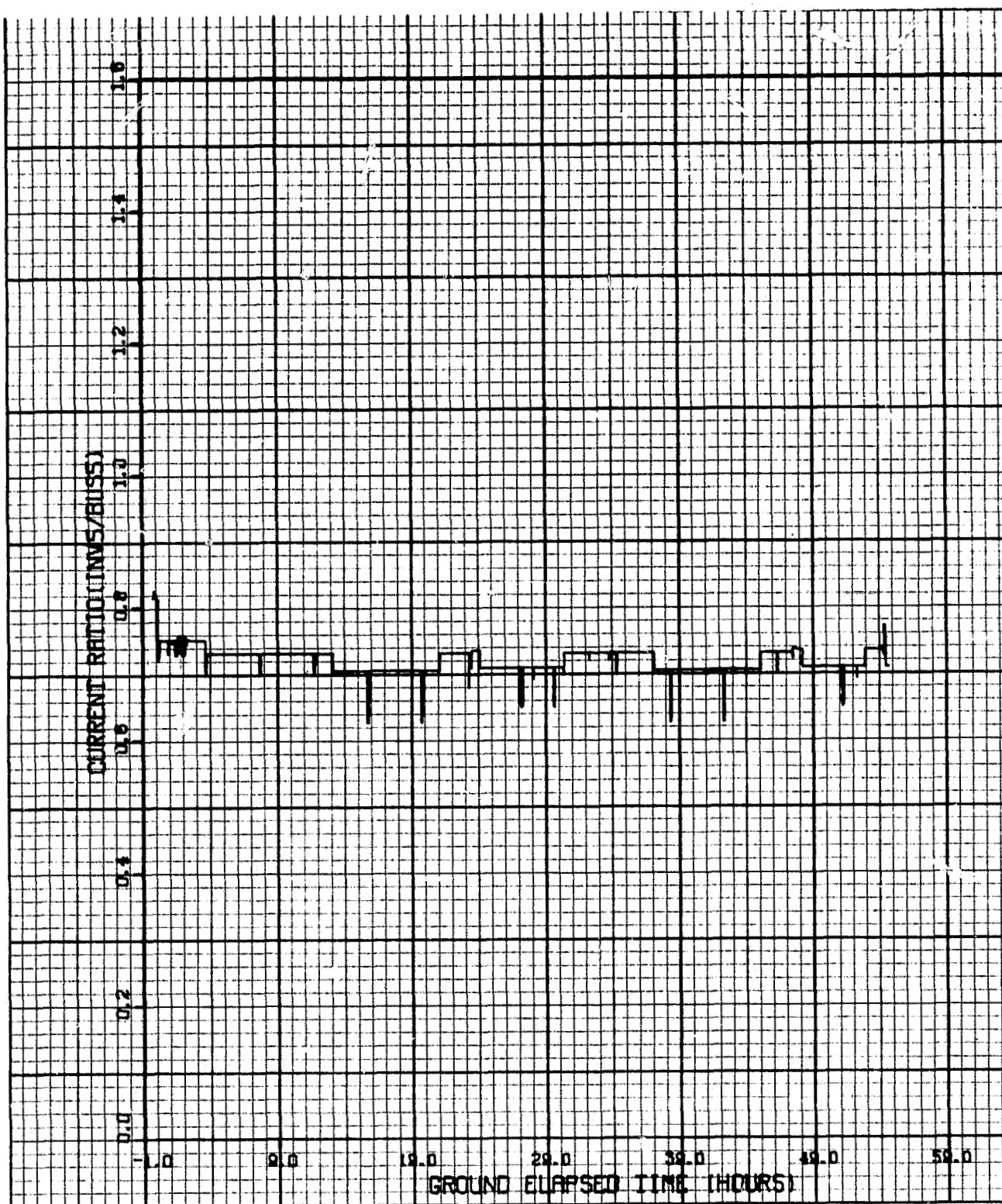


Figure 6.1-109.- Current ratio - Inverter 5/Bus 5

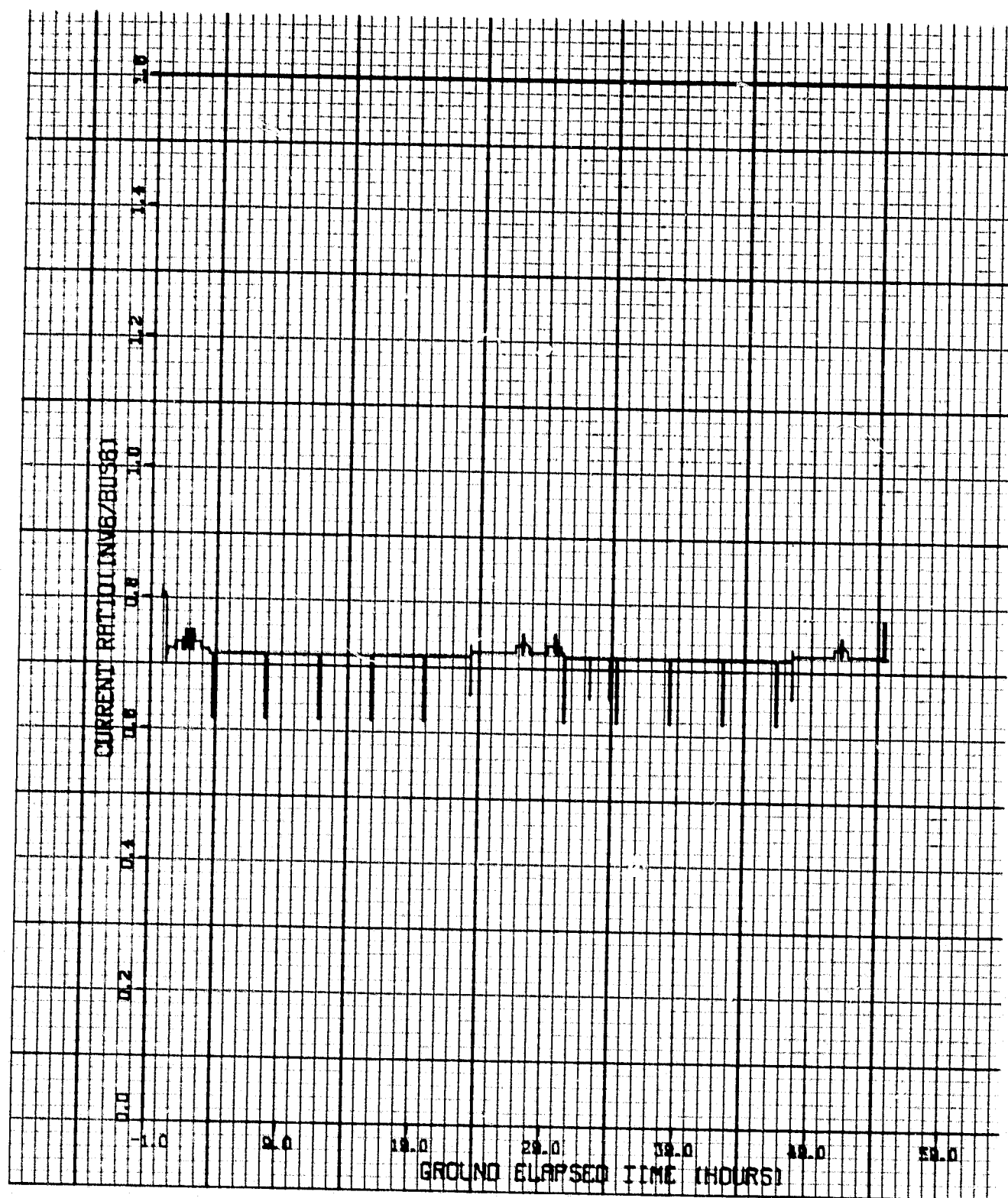


Figure 6.1-110.- Current ratio - Inverter 6/Bus 6

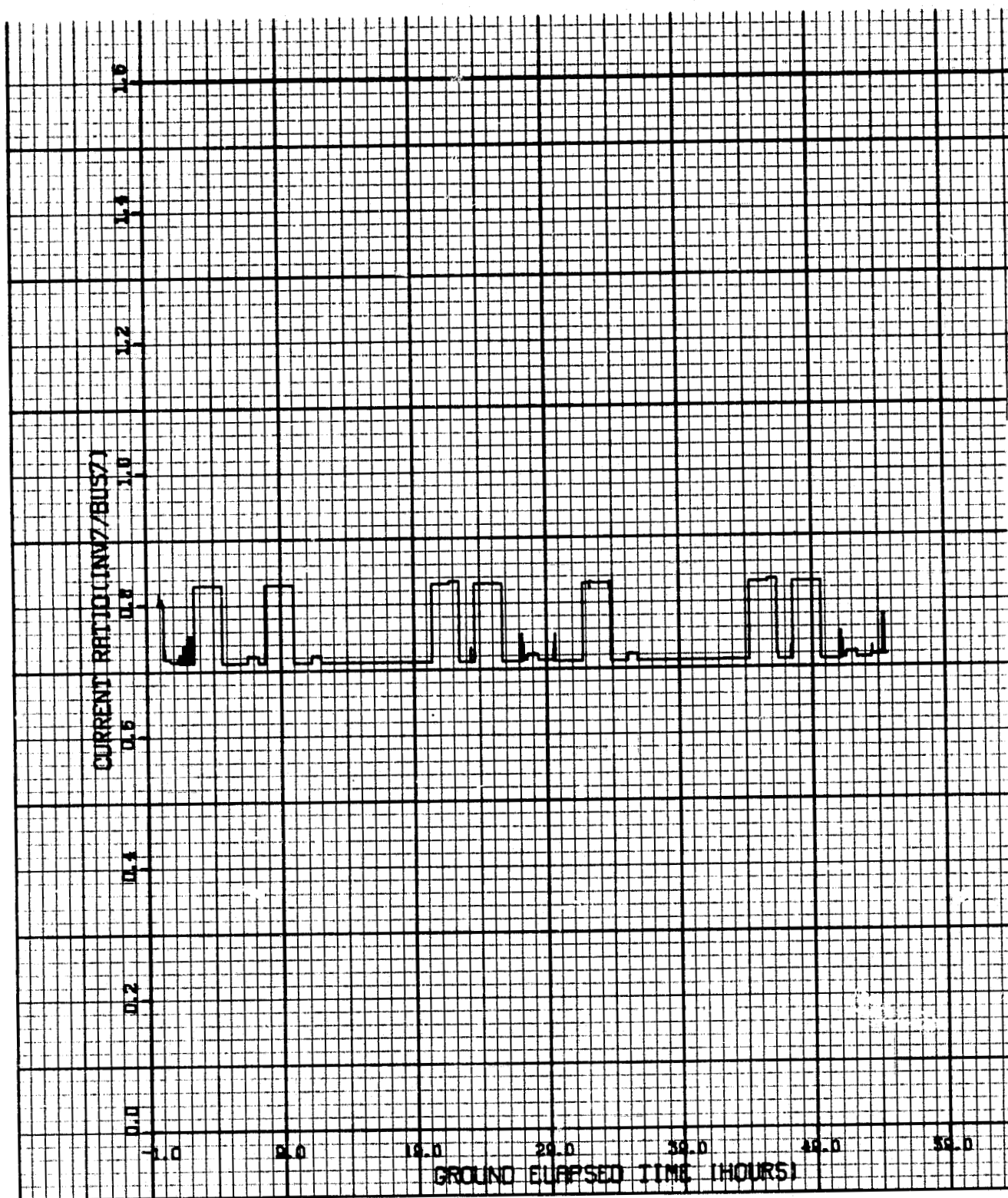


Figure 6.1-111.- Current ratio - Inverter 7/Bus 7

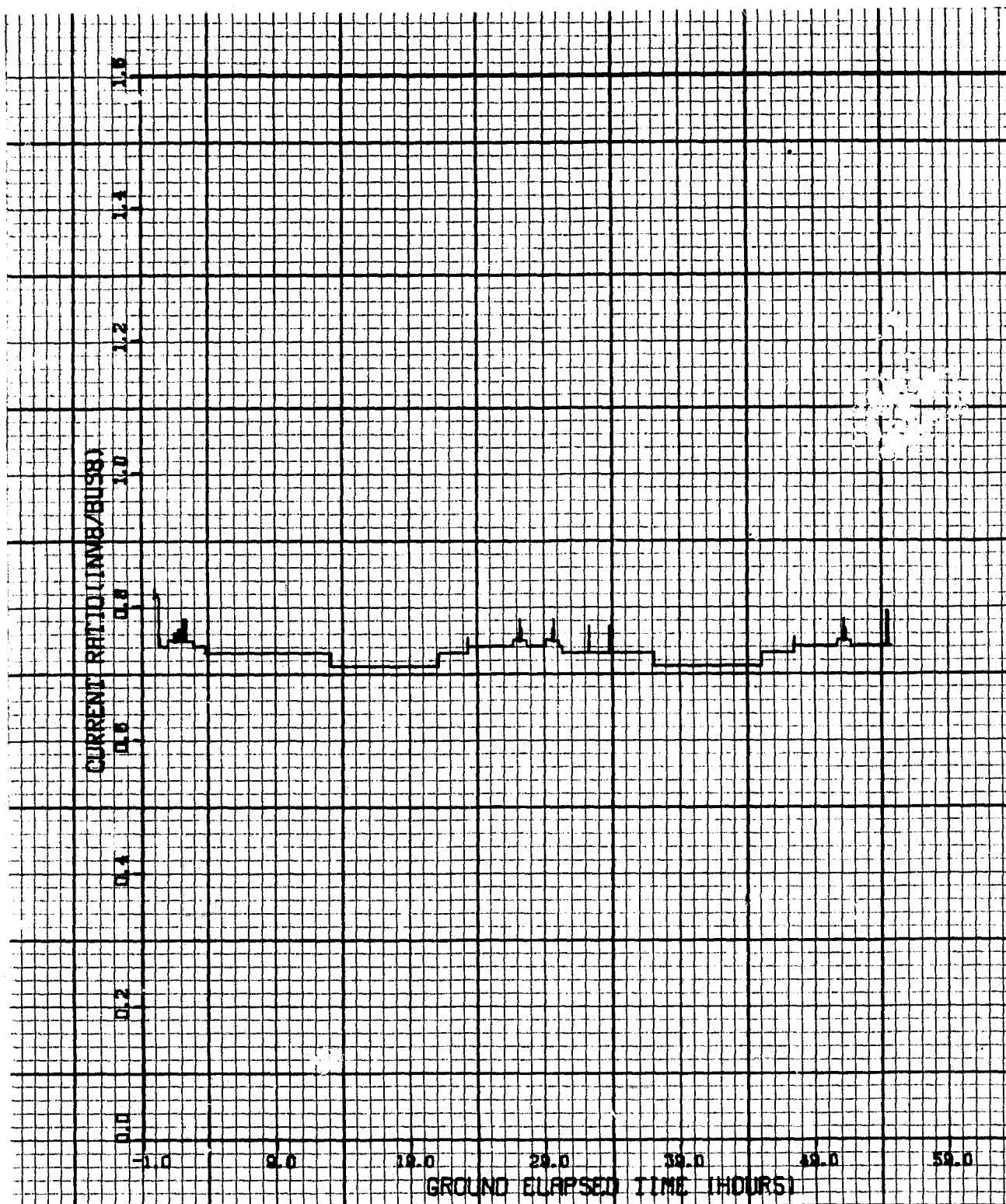


Figure 6.1-112.- Current ratio - Inverter 8/Bus 8

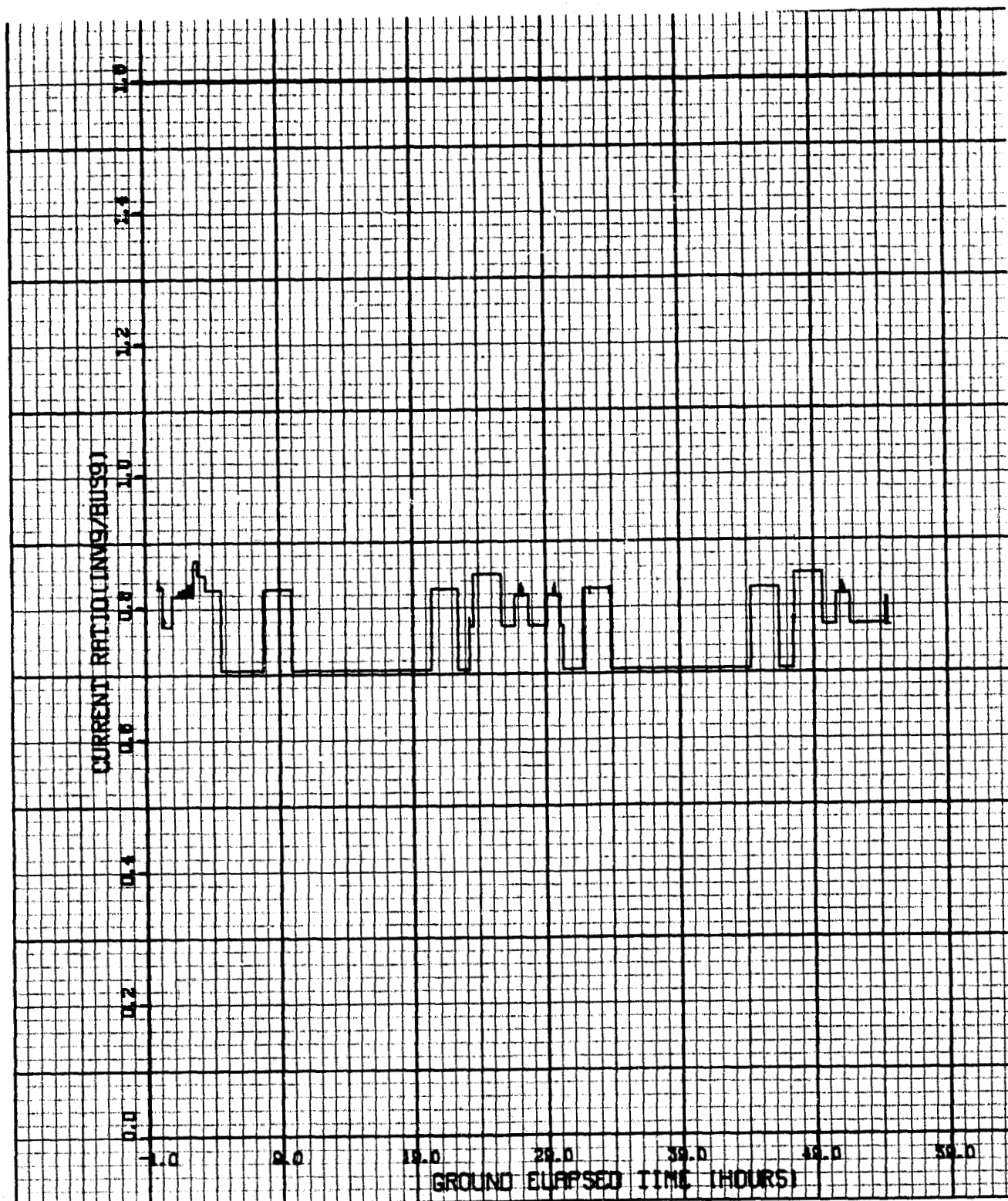


Figure 6.1-113.- Current ratio - Inverter 9/Bus 9

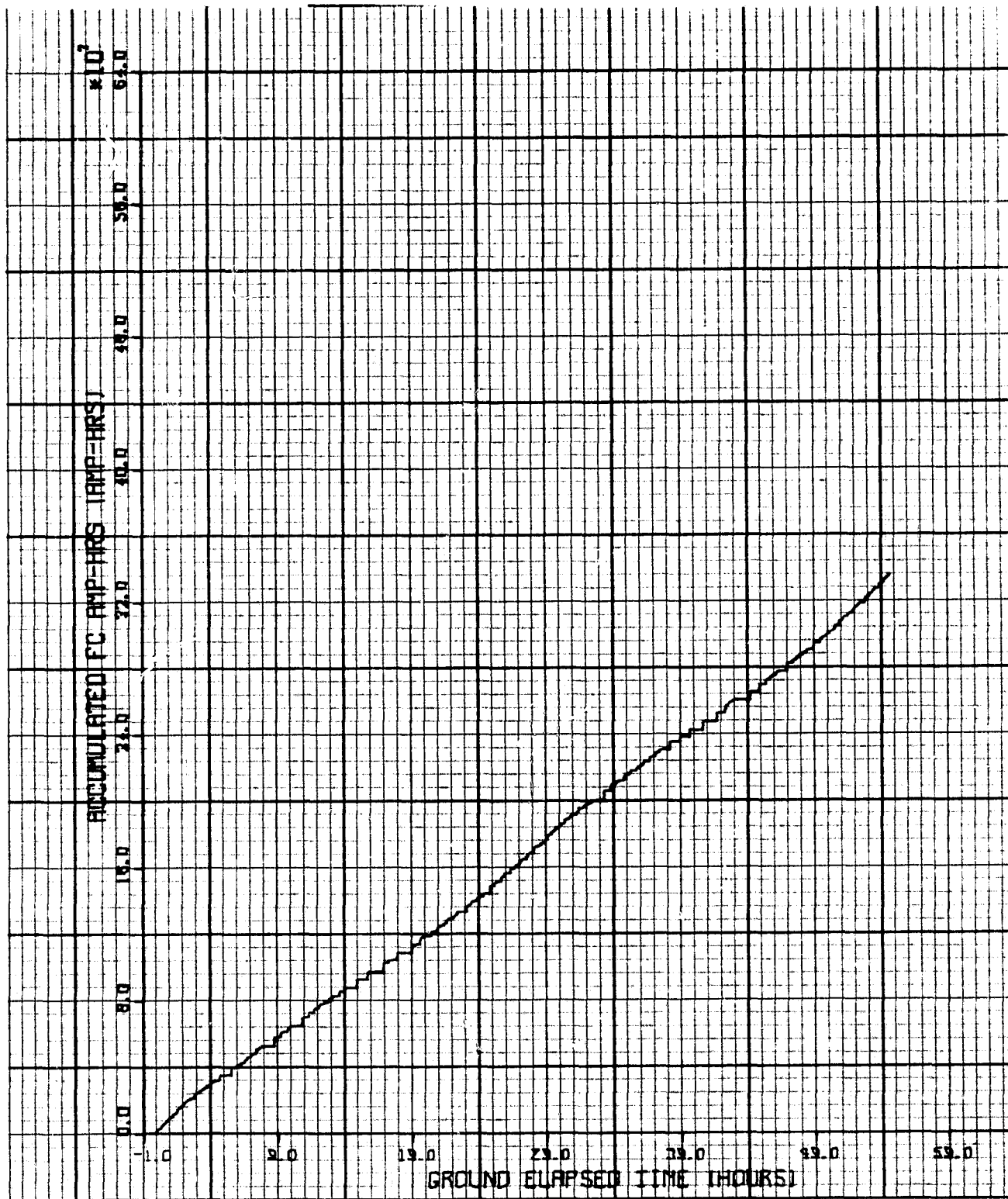


Figure 6.1-114.-Accumulated fuel cell amp-hours

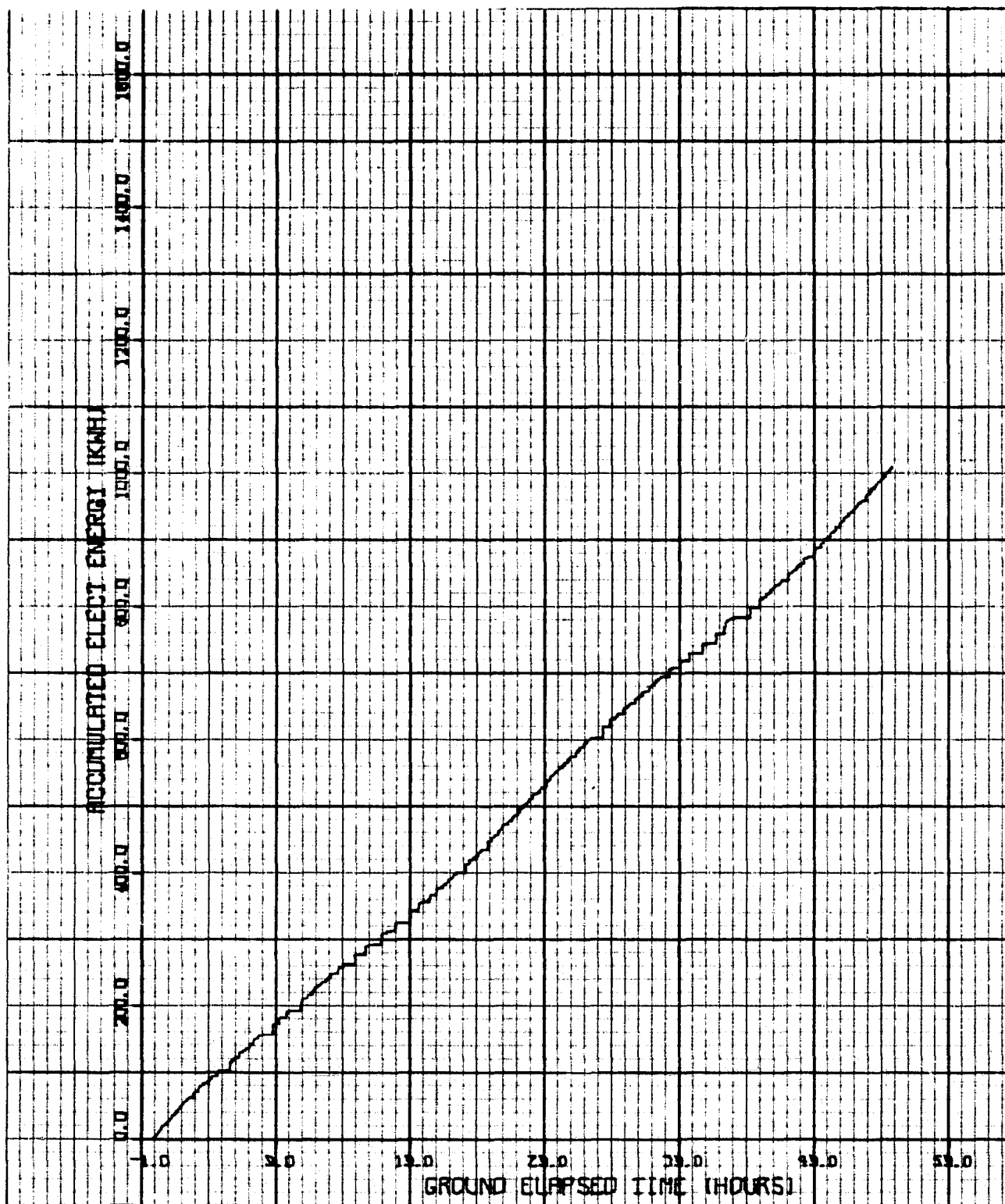


Figure 6.1-115.- Accumulated electrical energy



Figure 6.1-116.- Total fuel cell power

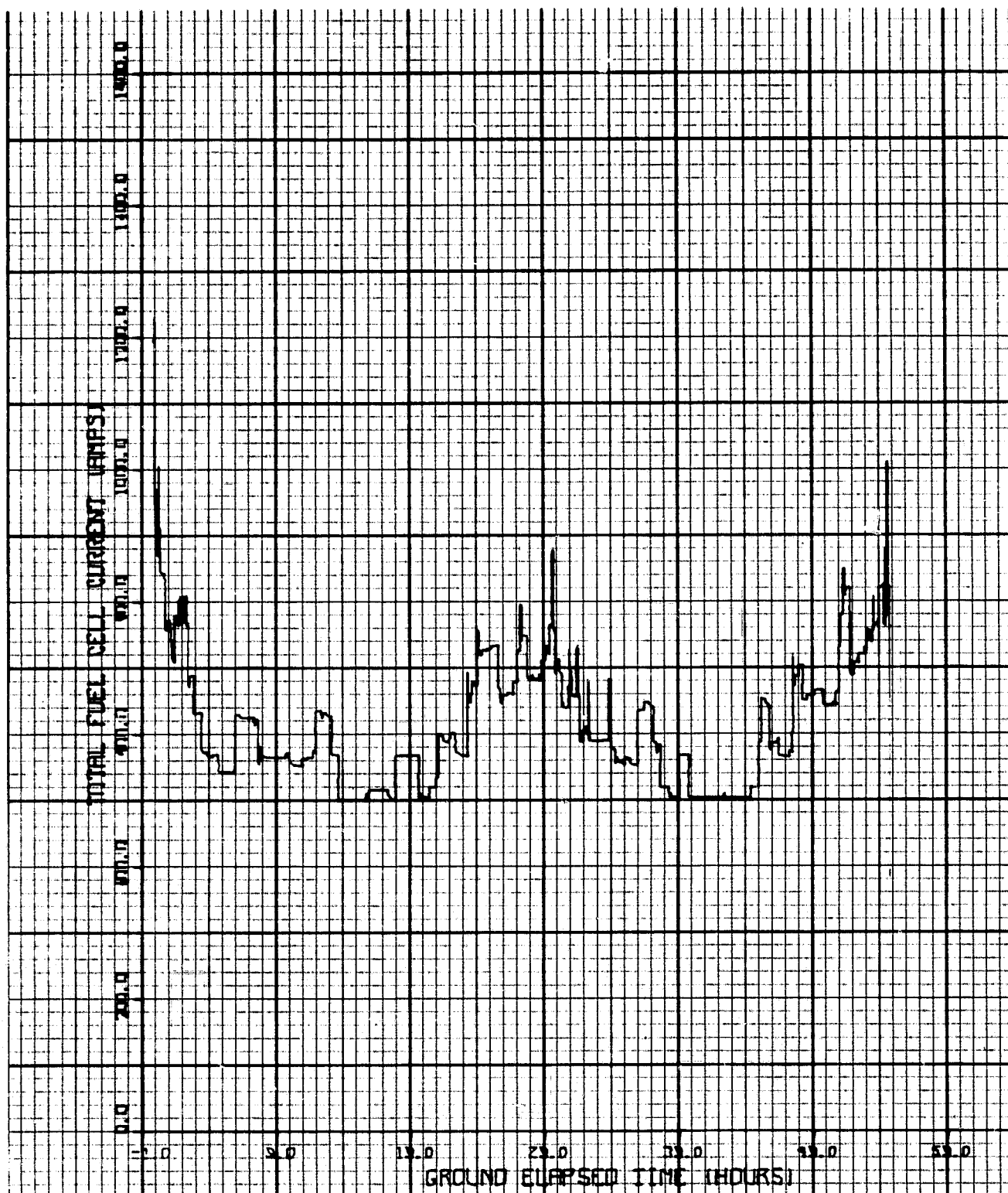


Figure 6.1-117.- Total fuel cell current

ORIGINAL PAGE IS
POOR QUALITY

Figure 6.2-1.- Circuit solution at 10 minutes prior to liftoff (initialization)

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME -1.16667 TIME STEP .00000 NEXT INPUT TIME -.15000													
TOTAL SOURCE POWER 33934.9917 TOTAL DC/AC LOAD 30636.7446 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 10													
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

1	1	1	28.18	408.61						408.6060	.0006		
2	2	2	28.45	381.67						381.6656	.0005		
3	3	3	28.65	401.57						401.5730	.0005		
4	4	4			.0000	.0000	27.9552	.0000	INF.	.0000	.0000		
5	5	5			.0000	.0000	28.2728	.0000	INF.	.0000	.0000		
6	6	6			.0000	.0000	28.4499	.0000	INF.	.0000	.0000		
7	7	7								408.6039	.0003		
8	8	8								381.6604	.0002		
9	9	9								400.9413	.0005		
10	10	10								.0000	.0016		
11	11	11								.0000	.0002		
12	12	12			.0000	.0000	27.8441	.0000	INF.	.0000	.0009		
13	13	13			.0000	.0000	28.1873	.0000	INF.	.0000	.0000		
14	14	14			.0000	.0000	28.2679	.0000	INF.	.0000	.0000		
15	15	15								.0000	.0000		
16	16	16								74.5891	.0016		
17	17	17								55.6939	.0014		
18	18	18								17.6332	.0015		
19	19	19			13.8080	.0000	26.4209	.5150	54.0612	.5150	2.7632		
20	20	20			13.9373	.0000	26.7475	.5211	54.0952	.5211	2.7632		
21	21	21			24.8944	.0000	26.8242	.9281	30.4592	.9281	1.5556		
22	22	22			140.8924	.0000	26.4209	5.3326	5.2215	5.3326	.2669		
23	23	23			88.0250	.0000	28.7475	3.2910	8.5651	3.2910	.4375		
24	24	24								8.7174	.0317		
25	25	25								10.4477	.0312		
26	26	26								.6736	.3900		
27	27	27								.6736	.3900		
28	28	28								8.5952	.0058		
29	29	29			517.9975	.0000	27.2018	19.0427	1.4673	19.0427	.0389		
30	30	30			3.3280	.0000	27.2593	.1221	229.2746	.1221	6.0000		
31	31	31								12.9062	.0183		
32	32	32								24.2066	.0206		
33	33	33								19.6854	.0195		
34	34	34								11.7263	.0629		
35	35	35			315.0880	.0000	26.8701	11.7263	2.3543	11.7263	.0555		
36	36	36			356.8002	.0000	26.9547	13.2370	2.0918	13.2370	.0845		
37	37	37			241.8794	.0000	27.1311	8.9152	3.1277	8.9152	.0074	.2000	.0009
38	38	38								1.1798	.0126	.2000	REVERSED
39	39	39								.0000	.0000	.2000	.0008
40	40	40								3.2846	.0000	.2000	.0009
41	41	41								10.9696	.0074	.2000	.0016
42	42	42								7.5153	.0126		
43	43	43											

160

Figure 6.2-1. - Continued

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Figure 6.2-1. - Continued

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Figure 6.2-1. - Continued

161	73	1	39.7117	.0000	25.5206	1.5561	17.0195	1.5561	.6186		
162	74	1	27.9262	.0000	25.4509	1.0973	24.0698	1.0973	.8748		
163	75	1	42.5400	.0000	25.1341	1.6912	15.4533	1.6912	.5792	.3500	.0002
164	76	1	134.7120	.0000	25.3172	5.3209	4.9114	5.3209	.1531	.3500	.0003
165	77	1	37.9200	.0000	25.0777	1.5121	17.2349	1.5121	.6498	.3500	.0003
166		1						5.6084	.0000	1.0500	.0002
167		1						8.3250	.0000	1.0500	.0003
168		1						-.0000	.0000	1.0500	REVERSED
169		1						2.4679	.0000	1.0500	.0002
170		1						-.0000	.0000	1.0500	REVERSED
171		1						6.5362	.0000	1.0500	.0002
172	78	1	200.8952	.0000	24.8663	8.0790	3.1480	8.0790	.0701		
173	79	1	207.2959	.0000	24.8924	8.3276	3.0537	8.3276	.0646		
174	80	1	162.4729	.0000	24.8553	6.5367	3.8908	6.5367	.0883		
175	81	1	.0000	.0000	24.8340	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	8.9296	.0000	24.6300	.3625	68.4966	.3625	.5600	1.6500	.0005
177	83	1	8.8748	.0000	24.5582	.3614	68.5179	.3614	.5600	1.6500	.0005
178		1						22.5403	.0011		
179		1						16.0052	.0010		
180		1						13.6083	.0011		
181	84	1	559.0994	.0000	24.8078	22.5372	1.1183	22.5372	.0174	1.3000	.0001
182	85	1	397.0272	.0000	24.8058	16.0054	1.5738	16.0054	.0238	1.3000	.0001
183	86	1	336.2956	.0000	24.7117	13.6087	1.8443	13.6087	.0287	1.3000	.0001
184		1						-.0000	.0000	1.3000	.0028
185		1						-.0000	.0000	1.3000	REVERSED
186		1						-.0000	.0000	1.3000	REVERSED
187		1						-.0000	.0000	1.3000	.0021
188	88	1	.0000	.0000	25.1892	.0000	INF.	.0000	.0000		
189	89	1	.0000	.0000	25.2025	.0000	INF.	.0000	.0000		
190		1						.0001	.0000	1.3000	.0013
191		1						-.0000	.0000	1.3000	REVERSED
192		1						-.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	25.2025	.0000	INF.	.0000	.0000		
194		1						.0000	.0000		
195		0						5.3676	.0217	.3800	.0020
196		0						.0000	.0410	.3800	.0021
197		0						5.2811	.0217	.3900	.0025
198		0						.0000	.0410	.3900	.0024
199		0						5.3293	.0217	.3900	.0022
200		0						.0000	.0410	.3900	.0021
201		0						5.3191	.0217	.3900	.0023
202		0						.0000	.0410	.3900	.0021
203		1						.1883	.0000	1.0500	.0053
204		1						.4855	.1460	1.0500	.0053
205		1						.1883	.0000	1.0500	.0053
206	90	1	.8655	.0000	25.2723	.0333	779.5133	.4855	.1460	1.0500	.0053
207		1						.0333	.1340		
208		1						2.5371	.1310	.2000	.0023
209	91	1	126.9112	.0000	25.4386	4.9889	5.0991	2.4518	.1310	.2000	.0023
210	92	1	.8648	.0000	25.2609	.0333	779.5102	4.9889	.0000		
211	93	1	.8648	.0000	25.2622	.0333	779.5105	.0333	.1340		
212		1						.0333	.1340		
213		1						2.4998	.1310	.2000	.0023
214	94	1	126.9017	.0000	25.4334	4.9895	5.0974	2.4897	.1310	.2000	.0023
215	95	1	.8648	.0000	25.2608	.0333	779.5102	4.9895	.0000		
216	96	1	16.48C1	.0000	24.4659	.6736	37.2565	.0333	.1340		
217	97	1	16.48C1	.0000	24.4659	.6736	37.2565	.6736	.9370		

Figure 6.2-1. - Continued

[illegible][illegible]

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE SWITCH CON	1	2	3
CURRENT	408.61	383.67	401.57
VOLTAGE	28.18	28.45	28.65
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

	CRYOGEN USAGE		H2O PROD	
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	(LBS)
02	3124.00	3124.00	.00	.00
W2	368.00	368.00	.00	.00

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE PWR. FAC.	INVERTER CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
1	100	0.95	0.5	100	1	0.5	0.95	1.0	100
2	200	0.95	1.0	200	1	1.0	0.95	1.0	200
3	300	0.95	1.5	300	1	1.5	0.95	1.0	300
4	400	0.95	2.0	400	1	2.0	0.95	1.0	400
5	500	0.95	2.5	500	1	2.5	0.95	1.0	500
6	600	0.95	3.0	600	1	3.0	0.95	1.0	600
7	700	0.95	3.5	700	1	3.5	0.95	1.0	700
8	800	0.95	4.0	800	1	4.0	0.95	1.0	800
9	900	0.95	4.5	900	1	4.5	0.95	1.0	900
10	1000	0.95	5.0	1000	1	5.0	0.95	1.0	1000
11	1100	0.95	5.5	1100	1	5.5	0.95	1.0	1100
12	1200	0.95	6.0	1200	1	6.0	0.95	1.0	1200
13	1300	0.95	6.5	1300	1	6.5	0.95	1.0	1300
14	1400	0.95	7.0	1400	1	7.0	0.95	1.0	1400
15	1500	0.95	7.5	1500	1	7.5	0.95	1.0	1500
16	1600	0.95	8.0	1600	1	8.0	0.95	1.0	1600
17	1700	0.95	8.5	1700	1	8.5	0.95	1.0	1700
18	1800	0.95	9.0	1800	1	9.0	0.95	1.0	1800
19	1900	0.95	9.5	1900	1	9.5	0.95	1.0	1900
20	2000	0.95	10.0	2000	1	10.0	0.95	1.0	2000
21	2100	0.95	10.5	2100	1	10.5	0.95	1.0	2100
22	2200	0.95	11.0	2200	1	11.0	0.95	1.0	2200
23	2300	0.95	11.5	2300	1	11.5	0.95	1.0	2300
24	2400	0.95	12.0	2400	1	12.0	0.95	1.0	2400
25	2500	0.95	12.5	2500	1	12.5	0.95	1.0	2500
26	2600	0.95	13.0	2600	1	13.0	0.95	1.0	2600
27	2700	0.95	13.5	2700	1	13.5	0.95	1.0	2700
28	2800	0.95	14.0	2800	1	14.0	0.95	1.0	2800
29	2900	0.95	14.5	2900	1	14.5	0.95	1.0	2900
30	3000	0.95	15.0	3000	1	15.0	0.95	1.0	3000
31	3100	0.95	15.5	3100	1	15.5	0.95	1.0	3100
32	3200	0.95	16.0	3200	1	16.0	0.95	1.0	3200
33	3300	0.95	16.5	3300	1	16.5	0.95	1.0	3300
34	3400	0.95	17.0	3400	1	17.0	0.95	1.0	3400
35	3500	0.95	17.5	3500	1	17.5	0.95	1.0	3500
36	3600	0.95	18.0	3600	1	18.0	0.95	1.0	3600
37	3700	0.95	18.5	3700	1	18.5	0.95	1.0	3700
38	3800	0.95	19.0	3800	1	19.0	0.95	1.0	3800
39	3900	0.95	19.5	3900	1	19.5	0.95	1.0	3900
40	4000	0.95	20.0	4000	1	20.0	0.95	1.0	4000

**ORIGINAL PAGE IS
OF POOR
QUALITY**

Figure 6.2-1. - Concluded

1A	785.1733	-.7742	8.8192	839.4583	-.9353	7.2996	.7526	.8277	1043.3338
1B	735.9733	-.7655	8.3602	785.1861	-.9373	6.8277	.7560	.8167	973.4501
1C	697.5733	-.7464	8.1272	750.5666	-.9294	6.5267	.7578	.8031	920.5060
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7554									
2A	562.3200	-.8034	6.0861	566.8750	-.9920	4.9293	.7650	.8099	735.0588
2B	587.6400	-.8051	6.3467	594.1761	-.9890	5.1667	.7650	.8141	768.1569
2C	572.0400	-.7896	6.2999	580.6423	-.9852	5.0491	.7650	.8015	747.7647
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	650.9733	-.7643	7.4066	682.2442	-.9542	5.9326	.7613	.8011	855.0370
3B	698.5733	-.7733	7.8555	734.7773	-.9504	6.3894	.7585	.8134	919.8069
3C	790.1733	-.7782	8.8300	842.6712	-.9377	7.3276	.7525	.8298	1050.0917
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7574									
ACCUMULATED WATT-HRS OF SOURCES .00 AND LOADS .00									

Figure 6.2-2.- Circuit solution at liftoff

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME -.00000 TIME STEP .00111 NEXT INPUT TIME .00833													
TOTAL SOURCE POWER 27483.5400 TOTAL DC/AC LOAD 25356.0852 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 8													
BRANCH NO	PN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	SHUNT RESISTANCE
1	1	1	29.00	308.72						308.7216	.0006		
2	2	1	29.11	307.95						307.9513	.0005		
3	3	1	29.20	327.64						327.6431	.0005		
4	1	1			.0000	.0000	28.8260	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	28.9674	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	29.0377	.0000	INF.	.0000	.0000		
7										308.7188	.0003		
8										307.8540	.0002		
9										327.4207	.0005		
10		0								.0000	.0016		
11		0								.0000	.0002		
12		0								.0000	.0009		
13	4	1			.0000	.0000	28.7420	.0000	INF.	.0000	.0000		
14	5	1			.0000	.0000	28.8988	.0000	INF.	.0000	.0000		
15	6	1			.0000	.0000	28.8891	.0000	INF.	.0000	.0000		
16										28.0845	.0016		
17										56.2693	.0014		
18										17.1413	.0015		
19	7	1			14.4703	.0000	27.2762	.5305	34.1782	.5305	2.7632		
20	8	1			14.6210	.0000	27.4257	.5331	54.2076	.5331	2.7632		
21	9	1			25.9550	.0000	27.4164	.9467	30.5158	.9467	1.5556		
22	10	1			149.8195	.0000	27.2762	5.4927	5.2328	5.4927	.2669		
23	11	1			92.3433	.0000	27.4257	3.3670	8.5829	3.3670	.4375		
24										11.2194	.0317		
25										13.4525	.0312		
26										.6777	.3900		
27										.6777	.3900		
28										11.0951	.0758		
29					680.5471	.0000	27.7236	24.5476	1.1598	24.5476	.0304		
30	12				3.4509	.0000	27.7887	.1242	229.7680	.1242	6.0000		
31	15									17.2109	.0183		
32										21.9838	.0206		
33										18.5858	.0195		
34										12.4626	.0599		
35	16				344.9709	.0000	27.6805	12.4626	2.2810	14.0324	.0511		
36					388.7099	.0000	27.7009	14.0324	2.0272	8.8883	.0845		
37	17				246.8818	.0000	27.7760	8.8883	3.2095	4.7483	.0074	.2000	.0009
38	18									.8523	.0126	.2000	.0016
39										3.1768	.0091	.2000	.0008
40										7.0991	.0074	.2000	.0009
41										6.5203	.0126	.2000	.0016
42													
43													

Figure 6.2-2. - Continued

44	19	326.1328	.0000	27.5280	11.8473	2.3792	- .0000	.0091	.2000	REVERSED
45							11.8473	.0551		
46	20	203.1093	.0000	27.5787	7.3725	3.8297	7.3725	.0892		
47	21	87.8000	.0000	27.6366	3.1769	8.9064	3.1769	.2073		
48							8.9064	.0071		
49							16.3215	.0048		
50							220.7996	.0659	.3500	.0002
51	22	377.4162	.0000	26.5286	14.2268	1.9308	14.2268	.0618	.3500	.0002
52	23	400.7657	.0000	26.5323	15.1048	1.8186	15.1048	.0618	.3500	.0002
53	24	797.5041	.0000	26.5038	30.0901	9.1300	30.0901	.0618	.3500	.0002
54	25	3029.6015	.0000	27.2801	111.0556	4.2005	111.0556	.0049		
55	26	2344.2934	.0000	27.4048	85.5433	3.2552	85.5433	.0049		
56	27	2908.3492	.0000	27.3053	106.5124	2.612	106.5124	.0049		
57							103.5108	.0000	1.0500	.0002
58							1.7338	.0000	1.0500	.0002
59							8.4723	.0000	1.0500	.0002
60							7.3964	.0000	1.0500	.0002
61							12.0887	.0000	1.0500	.0002
62							2.5712	.0000	1.0500	.0005
63	28	280.2957	.0000	26.1692	10.7109	2.4992	10.7109	.0559		
64	29	361.7659	.0000	26.1694	13.8240	1.9365	13.8240	.0434		
65	30	296.7810	.0000	26.1716	11.3398	2.3605	11.3398	.0525		
66							17.7413	.0000	1.0500	.0001
67							129.9363	.0000	1.0500	.0001
68							108.4512	.0000	1.0500	.0001
69	31	3298.2381	.0000	26.1455	126.1495	.2122	126.1495	.0049		
70							4.7872	.0079		
71							4.9157	.0085		
72							5.1658	.0067		
73	32	20.4444	.0000	26.0906	.7836	33.8349	.7836	.5383	1.3000	.0005
74	33	128.0823	.0000	26.0555	4.9157	5.3864	4.9157	.0857	1.3000	.0003
75	34	129.8359	.0000	26.0625	4.9817	5.3170	4.9817	.0846	1.3000	.0008
76							- .0000	.0000	1.3000	REVERSED
77							- .0000	.0000	1.3000	REVERSED
78							- .1807	.0000	1.3000	.0005
79							- .0016	.0000	1.3000	.0005
80							- .1806	2.3333		
81	36	4.7074	.0000	26.0663	.1806	146.6697	.0000	.0000		
82	37	.0000	.0000	26.5128	.0000	INF.	.0000	.2526	1.4000	REVERSED
83							- .0000	.1970	1.0500	.0026
84							.5018	.1955	1.0500	.0026
85							.2437	.1900	1.0500	.0026
86							.0964	.2058	1.0500	.0024
87							.0985	.1499	1.0500	.0026
88							1.1038	.1372	1.0500	.0026
89							1.7074	.0894	1.0500	.0026
90							2.9050	.2221	1.4000	.0024
91							1.7333	.0212	3.9000	.0002
92							.1227	.0212	3.9000	.0002
93							.1925	.0518	3.9000	.0002
94	38	4.5625	.0000	23.6712	.1927	122.8334	.1899	.0518	3.9000	.0006
95	39	4.5504	.0000	23.6428	.1925	122.8634	.1899	.0518		
96	40	4.4984	.0000	23.6885	.1899	124.7974	.1899	.0518		
97	41	67.7141	.0000	26.9560	2.5111	10.9814	2.5111	.2426		
98	42	89.2393	.0000	26.9382	3.3127	8.3155	3.3127	.1838		
99	43	35.9185	.0000	26.9891	1.3309	20.7377	1.3309	.4562		
100							95.1865	.0073		
101							73.2280	.0117		
102							45.2694	.0189		
103							25.3752	.0000	1.0500	.0003

Figure 6.2-2. - Continued

104						.8682	.0000	1.0500	.0007
105						.0000	.0000	1.0500	REVERSED
106						.0000	.0000	1.0500	REVERSED
107						.0000	.0000	1.0500	REVERSED
108						.0000	.0000	1.0500	REVERSED
109	44	678.5893	.0000	26.7406	25.3767	1.0939	.0000	1.0500	.0011
110	45	23.3370	.0000	26.8888	25.8686	32.0227	1.0876		
111	46	96.7636	.0000	26.8558	3.6031	1.7185	.2649		
112	47	739.6977	.0000	27.0561	27.3394	1.0369	.0472	.3500	.0000
113	48	782.1512	.0000	27.1708	28.7864	.9889	.0450	.3500	.0000
114	49	218.9862	.0000	27.1211	8.0474	3.5433	.1617	.3500	.0001
115							.0000	.0521	1.0500 .0003
116							.0000	.1374	1.0500 .0003
117	50	.0000	.0000	27.6471	.0000	INF.	.0677		
118	51	.0000	.0000	27.6471	.0000	INF.	.0691		
119	52	.0000	.0000	27.6471	.0000	INF.	.0525		
120							.0000	.3500	.0024
121							.0000	.3500	.0024
122	53	.0000	.0000	.0000	.0000	INF.	.0691	.7000	.0015
123	54	.0000	.0000	.0000	.0000	INF.	.1063	.7000	.0015
124							.0000	.0321	.7000 .0004
125							.0000	.0256	.7000 .0004
126	55	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
127	56	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
128							.0000	.0000	.2000 .0004
129							.0000	.0000	.2000 .0004
130	57	.0000	.0000	.0000	.0000	INF.	.0053		
131	58	.0000	.0000	.0000	.0000	INF.	.0052		
132	59	.0000	.0000	.0000	.0000	INF.	.0041		
133	60	32.5266	.0000	27.0282	1.2034	23.3049	.8456		
134	61	42.7471	.0000	27.0218	1.5819	17.7248	.6431		
135	62	10.1927	.0000	27.0176	3.3773	74.3111	2.6965	.3500	.0002
136	63	164.9909	.0000	26.8353	6.1483	4.5046	1.1397	.3500	.0002
137	64	188.4447	.0000	26.8257	7.0248	3.9417	.1227	.3500	.0004
138	65	174.8227	.0000	26.8219	6.5179	4.2475	.1319	.3500	.0006
139							13.8381	1.0500	.0006
140							11.7831	1.0500	.0006
141							.0000	1.0500	REVERSED
142							.0000	1.0500	.0006
143							2.4935	1.0500	.0006
144							4.2874	1.0500	.0006
145	66	431.8610	.0000	26.4464	16.3297	1.6527	18.2718	1.0500	.0005
146	67	424.9091	.0000	26.4411	16.0700	1.6791	16.3297		
147	68	463.1234	.0000	26.4426	18.2706	1.4770	18.2706		
148							.0000	.0297	2.3500 REVERSED
149							.0000	.0000	2.3500 REVERSED
150							2.5786	.0000	2.3500 .0015
151							2.5783	.0000	2.3500 .0015
152							2.5813	.0000	2.3500 .0008
153							.0000	.0000	2.3500 REVERSED
154	69	66.079							

Figure 6.2-2. - Continued

161	73	1	27.4320	.0000	26.9988	1.0160	27.5730	1.0160	1.0006		
162	74	1	30.6749	.0000	27.0007	1.1361	24.6615	1.1361	.8949		
163	75	1	42.3400	.0000	26.7411	1.5908	17.3892	1.5908	.5792	.3500	.0002
164	76	1	150.3150	.0000	26.8109	5.6065	4.9345	5.6065	.1522	.3500	.0003
165	77	1	37.9200	.0000	26.7456	1.4178	19.5143	1.4178	.6498	.3500	.0003
166		1						.0000	.0000	1.0500	REVERSED
167		1						1.9000	.0000	1.0500	.0003
168		1						6.9277	.0000	1.0500	.0002
169		1						7.8076	.0000	1.0500	.0002
170		1						7.6878	.0000	1.0500	.0003
171		1						.0000	.0000	1.0500	REVERSED
172	78	1	206.2391	.0000	26.4162	7.8073	3.4536	7.8073	.0701		
173	79	1	253.5526	.0000	26.4355	9.5914	2.8114	9.5914	.0552		
174	80	1	183.0680	.0000	26.4127	6.9311	3.8906	6.9311	.0798		
175	81	1	.0000	.0000	26.3628	INF.	INF.	.0000	.0000	1.6500	.0005
176	82	1	10.0883	.0000	26.1492	.3858	68.3401	.3858	.5600	1.6500	.0005
177	83	1	10.0858	.0000	26.1511	.3858	68.3402	.3858	.5600	1.6500	.0005
178		1						16.6805	.0011		
179		1						16.5921	.0010		
180		1						15.1611	.0011		
181	84	1	439.3196	.0000	26.3424	16.6773	1.6027	16.6773	.0230	1.3000	.0001
182	85	1	436.9171	.0000	26.3356	16.5904	1.6107	16.5904	.0232	1.3000	.0001
183	86	1	399.2027	.0000	26.3312	15.1608	1.7623	15.1608	.0254	1.3000	.0001
184		1						.0002	.0000	1.3000	.0028
185		1						.0003	.0000	1.3000	REVERSED
186		1						.0000	.0000	1.3000	REVERSED
187		1						.0001	.0000	1.3000	.0021
188	88	1	.0000	.0000	26.7220	.0000	INF.	.0000	.0000		
189	89	1	.0000	.0000	26.7278	.0000	INF.	.0000	.0000		
190		1						.0003	.0000	1.3000	.0013
191		1						.0000	.0000	1.3000	REVERSED
192		1						.0000	.0000	1.3000	REVERSED
193		1						.0000	.0000		
194	87	1	.0000	.0000	26.7278	.0000	INF.	.0000	.0000		
195		0						7.2512	.0217	.3800	.0020
196		0						.0000	.0410	.3800	.0021
197		0						7.1800	.0217	.3900	.0025
198		0						.0000	.0410	.3900	.0024
199		0						7.2102	.0217	.3900	.0022
200		1						.0000	.0410	.3900	.0021
201		0						7.2200	.0217	.3900	.0023
202		1						.0000	.0410	.3900	.0021
203		1						.6671	.0000	1.0500	.0053
204		1						.0109	.1460	1.0500	.0053
205		1						.6671	.0000	1.0500	.0053
206	90	1	2.8899	.0000	27.4469	.1053	260.8076	.0109	.1460	1.0500	.0053
207		1						.1053	.1340		
208		1						2.4416	.1310	.2000	.0023
209	91	1	129.6514	.0000	26.9355	4.8134	5.5960	2.3718	.1310	.2000	.0023
210	92	1	2.8881	.0000	27.4376	.1053	260.7979	4.8134	.0000		
211	93	1	2.8879	.0000	27.4364	.1053	260.7967	.1053	.1340		
212		1						2.4021	.1310	.2000	.0023
213		1						2.4118	.1310	.2000	.0023
214	94	1	129.6418	.0000	26.9303	4.8140	5.5942	4.8140	.0000		
215	95	1	2.8881	.0000	27.4377	.1053	260.7980	.1053	.1310		
216	96	1	17.6651	.0000	26.0644	.6777	39.3944	.6777	.9370		
217	97	1	17.6651	.0000	26.0644	.6777	39.3944	.6777	.9370		

Figure 6.2-2. - Continued

218		0					.0000	.0070		
219		0					.0000	.0062		
220	98	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
221		0						.0000	.0000	
222		0						.0000	.0000	
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
225		0						.0000	.0007	
226		0						.0000	.0002	
227		0						.0191	.0002	
228		0					-	.0010	.0002	
229		0					-	.0010	.0002	
230	101	0	.0000	.0000	29.0377	.0000	INF.	.0000	.0022	
231		0						.0000	.0002	
232		0						.0000	.0002	
233		0						.0000	.0002	
234	102	1	122.0194	.0000	25.9376	4.7043	5.6992	4.7043	.1850	.6500 .0007
235	103	1	121.9351	.0000	25.9280	4.7028	5.6990	4.7028	.1850	.6500 .0008
236	104	1	121.9302	.0000	25.9274	4.7027	5.6989	4.7027	.1850	.6500 .0007
237	105	1	121.9360	.0000	25.9281	4.7029	5.6991	4.7029	.1850	.6500 .0008
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	

NODE	1	TO	10	28.0000	28.8260	28.9674	29.0377	28.7420	28.8988	28.8891	28.0000	26.6995	26.6995
NODE	11	TO	20	28.5338	28.7896	28.9229	28.9465	28.5252	28.8187	28.7344	28.2952	27.8100	27.8199
NODE	21	TO	30	28.7752	26.7593	26.7595	26.7597	28.6812	28.8122	28.8122	26.7601	27.8100	27.8199
NODE	31	TO	40	26.5118	27.5753	27.5469	27.5988	26.6991	26.8122	28.8641	27.7601	27.8100	27.8102
NODE	41	TO	50	27.6471	.0000	.0000	.0000	28.0458	28.0393	28.0348	26.9878	26.9823	26.9862
NODE	51	TO	60	25.6919	25.6873	25.6919	28.0128	28.0154	28.0174	26.9635	26.9648	26.9660	28.0278
NODE	61	TO	70	28.0220	28.0180	26.7278	26.7220	26.7278	29.4610	26.9356	27.4517	27.4505	26.9304
NODE	71	TO	80	27.4518	26.9638	26.9638	29.0377	29.0377	29.0377	.0000	.0000	.0000	.0000

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE SWITCH CON	1	2	3
CURRENT	308.72	307.95	327.64
VOLTAGE	29.00	29.11	29.20
PARASITIC	.0000	.0000	.0000
WMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

	CRYOGEN USAGE		LOADED REMAINING		CONSUMED H2O PROD	
	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	3120.15	3.85			4.34
H2	368.00	367.51	.49			

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE INVERTER PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-2. - Concluded

1A	805.1733	-.7773	9.0073	861.5940	-.9345	7.4921	.7511	.8318	1071.943C
1B	755.9733	-.7691	8.5476	807.3107	-.9366	7.0201	.7546	.8213	1001.7888
1C	722.5733	-.7502	8.3751	779.2724	-.9272	6.7763	.7559	.8091	955.8697
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7538									
2A	582.3200	-.8068	6.2761	587.9823	-.9904	5.1129	.7650	.8147	761.2026
2B	607.6400	-.8083	6.5368	615.4245	-.9874	5.3515	.7649	.8187	794.3654
2C	603.0400	-.7916	6.6243	614.9587	-.9806	5.3475	.7646	.8072	788.7255
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7648									
3A	670.9733	-.7684	7.5934	704.2340	-.9528	6.1238	.7606	.8065	882.2054
3B	718.5733	-.7768	8.0435	756.8009	-.9495	6.5809	.7584	.8182	947.4238
3C	810.1733	-.7812	9.0183	864.7933	-.9368	7.5199	.7511	.8338	1078.7199
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7563									
ACCUMULATED WATT-HRS OF SOURCES 3250.85 AND LOADS 4800.19 4800.32									

Figure F.2-3.- Circuit solution at 5 minutes MET

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME			.08333 TIME STEP			.01414 NEXT INPUT TIME			.14250					
TOTAL SOURCE POWER 26580.8333			TOTAL DC/AC LOAD 24579.8684			REFERENCE NODE 1			ACCURACY .0010 SOLUTIONS ATTEMPTED 5					
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE		SHUNT
1	1	1	29.10	296.31						296.3138	.0006			
2	2	1	29.21	297.06						297.0646	.0005			
3	3	1	29.28	316.98						316.9627	.0005			
4	1	1			.0000	.0000	28.9386	.0000	INF.	.0000	.0000			
5	2	1			.0000	.0000	29.0695	.0000	INF.	.0000	.0000			
6	3	1			.0000	.0000	29.1242	.0000	INF.	.0000	.0000			
7										296.3157	.0003			
8										296.9509	.0002			
9										316.8052	.0005			
10										.0000	.0016			
11										.0000	.0002			
12										.0000	.0009			
13	4	1			.0000	.0000	28.8580	.0000	INF.	.0000	.0000			
14	5	1			.0000	.0000	29.0032	.0000	INF.	.0000	.0000			
15	6	1			.0000	.0000	28.9804	.0000	INF.	.0000	.0000			
16										28.3082	.0016			
17										56.0045	.0014			
18										17.0566	.0015			
19	7	1			.0000	.0000	27.3868	.5324	34.1997	.5324	2.7632			
20	8	1			.0000	.0000	27.5254	.5348	34.2285	.5348	2.7632			
21	9	1			.0000	.0000	27.5036	.9494	30.5260	.9494	1.5556			
22	10	1			.0000	.0000	27.3868	5.5127	5.2349	5.5127	.2669			
23	11	1			.0000	.0000	27.5254	3.3779	8.5862	3.3779	.4375			
24										11.2390	.0317			
25										13.4759	.0312			
26										.0000	.3900			
27										.0000	.3900			
28										11.1141	.0058			
29										24.5901	.0304			
30	12	1			.0000	.0000	27.8129	24.5901	1.1614	.1245	6.0000			
31	15	1			.0000	.0000	27.8772	.1245	229.8629	.1245	.0183			
32										17.5207	.0206			
33										21.9515	.0195			
34										18.2809	.0599			
35										12.4831	.0531			
36	16	1			.0000	.0000	27.7895	12.4831	2.2861	14.0614	.0845			
37	17	1			.0000	.0000	27.8042	14.0614	2.0305	8.8844	.0074	.2000	.0009	
38	18	1			.0000	.0000	27.8735	8.8844	3.2218	5.0377	.0126	.2000	.0016	
39										1.1204	.0091	.2000	.0008	
40										3.1656	.0074	.2000	.0009	
41										6.7699	.0126	.2000	.0016	
42										6.2310				

Figure 6.2-3. - Continued

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Figure 6.2-3. - Continued

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Figure 6.2-3. - Continued

161	73	1	37.3312	.0000	27.2250	1.3712	20.6019	1.3712	.7471		
162	74	1	31.6086	.0000	27.2243	1.1610	24.3306	1.1610	.8823		
163	75	1	36.2229	.0000	26.9848	1.3426	20.7793	1.3426	.6801	.3500	.0002
164	76	1	150.6073	.0000	27.0401	5.5697	5.0091	5.5697	.1540	.3500	.0003
165	77	1	32.2952	.0000	26.9852	1.1968	23.3118	1.1968	.7630	.3500	.0003
166								1.2615	.0000	1.0500	.0002
167								5.8194	.0000	1.0500	.0003
168								4.8951	.0000	1.0500	.0002
169								6.1710	.0000	1.0500	.0002
170								3.7741	.0000	1.0500	.0003
171								1.9887	.0000	1.0500	.0002
172	78	1	198.1269	.0000	26.6514	7.4340	3.6586	7.4340	.0735		
173	79	1	255.8344	.0000	26.6680	9.5933	2.8351	9.5933	.0552		
174	80	1	183.4881	.0000	26.6481	6.8856	3.9500	6.8856	.0798		
175	81	1	.0000	.0000	26.5981	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	10.2654	.0000	26.3813	.3891	68.3589	.3891	.5600	1.6500	.0005
177	83	1	10.2649	.0000	26.3806	.3891	68.3588	.3891	.5600	1.6500	.0005
178								17.7534	.0011		
179								14.5190	.0010		
180								13.4200	.0011		
181	84	1	400.1062	.0000	26.5631	15.0624	1.7891	15.0624	.0255	1.3000	.0001
182	85	1	385.6139	.0000	26.5631	14.5169	1.8564	14.5169	.0265	1.3000	.0001
183	86	1	341.4343	.0000	26.5586	12.8558	2.0959	12.8558	.0299	1.3000	.0001
184								.0002	.0000	1.3000	.0028
185								.5610	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								2.6882	.0000	1.3000	.0021
188	88	1	.0000	.0000	26.9491	.0000	INF.	.0000	.0000		
189	89	1	86.3000	.0000	26.5618	3.2490	8.2927	3.2490	.1174		
190								.0000	.0000	1.3000	REVERSED
191								.0003	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	26.9491	.0000	INF.	.0000	.0000		
194								.0001	.0000		
195								.0217	.3800	.0020	
196								.0000	.0410	.3800	.0021
197								.0001	.0217	.3900	.0025
198								.0000	.0410	.3900	.0024
199								.0001	.0217	.3900	.0022
200								.0000	.0410	.3900	.0021
201								.0001	.0217	.3900	.0023
202								.0000	.0410	.3900	.0021
203								.0000	.0000	1.0500	.0053
204								.0000	.1460	1.0500	.0053
205								.0000	.0000	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207								.0000	.1340		
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1340		
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-3. - Continued

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Figure 6.2-3. - Concluded

1A	805.1733	-.7773	9.0073	861.5940	-.9345	7.4921	.7511	-.8310	1071.9430
1B	755.9733	-.7691	8.5476	807.3107	-.9334	7.0201	.7546	-.8213	1001.7888
1C	722.5733	-.7502	8.3751	779.2724	-.9272	6.7763	.7559	-.8091	955.8697
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7538									
2A	582.3200	-.8068	6.2761	587.9823	-.9904	5.1129	.7650	-.8147	761.2026
2B	607.6400	-.8083	6.5368	615.4245	-.9874	5.3615	.7649	-.8187	794.3654
2C	603.0400	-.7916	6.6243	614.9567	-.9806	5.3475	.7646	-.8072	788.7255
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7648									
3A	670.9733	-.7684	7.5934	704.2340	-.9528	6.1238	.7606	-.8065	882.2054
3B	718.5733	-.7768	8.0435	756.8009	-.9455	6.5809	.7584	-.8182	947.6238
3C	810.1733	-.7812	9.0183	864.7933	-.9368	7.5199	.7511	-.8338	1078.7199
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7563									
ACCUMULATED WATT-HRS OF SOURCES 7503.81 AND LOADS 6881.09 6881.26									

Figure 6.2-4.- Circuit solution at 10 minutes MET

***** DC DISTRIBUTION NETWORK STATUS *****													
MISSION ELAPSED TIME .16667 TIME STEP .00278 NEXT INPUT TIME .16778													
TOTAL SOURCE POWER 25629.1047 TOTAL DC/AC LOAD 23753.9868 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 5													
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE CR RES SHUNT
1	1	1	29.21	283.99						283.9927	.0006		
2	1	1	29.31	283.16						286.1628	.0005		
3	1	1	29.38	304.57						304.5681	.0005		
4	1	1			.0000	.0000	29.0538	.0000	INF.	.0000	.0000		
5	1	1			.0000	.0000	29.1748	.0000	INF.	.0000	.0000		
6	1	1			.0000	.0000	29.2245	.0000	INF.	.0000	.0000		
7	1	1								.0000	.0000		
8	1	1								283.9916	.0003		
9	1	1								286.0713	.0002		
10	1	1								304.4511	.0005		
11	1	1								.0000	.0016		
12	1	1			.0000	.0000	28.9766	.0000	INF.	.0000	.0002		
13	1	1			.0000	.0000	29.1110	.0000	INF.	.0000	.0009		
14	1	1			.0000	.0000	29.0863	.0000	INF.	.0000	.0000		
15	1	1								.0000	.0000		
16	1	1								28.5071	.0016		
17	1	1								56.0136	.0014		
18	1	1								14.3822	.0015		
19	1	1								.5344	2.7632		
20	1	1			.0000	.0000	27.6999	.5344	54.2230	.5344	2.7632		
21	1	1			.0000	.0000	27.6283	.5366	54.2511	.5366	2.7632		
22	1	1			.0000	.0000	27.6047	.9525	30.5384	.9525	1.5556		
23	1	1			.0000	.0000	27.4999	5.5329	5.2371	5.5329	.2669		
24	1	1			.0000	.0000	27.6283	3.3890	8.5898	3.3890	.4375		
25	1	1								11.2615	.0317		
26	1	1								13.5029	.0312		
27	1	1								.0000	.3900		
28	1	1								.0000	.3900		
29	1	1								11.1366	.0058		
30	1	1								24.6392	.0304		
31	1	1								.1249	6.0000		
32	1	1								17.7475	.0183		
33	1	1								21.8105	.0206		
34	1	1								18.1652	.0195		
35	1	1								12.5043	.0599		
36	1	1								14.0916	.0531		
37	1	1								8.8800	.0845		
38	1	1								5.2433	.0074		
39	1	1								1.1960	.0126	.2000	.0009
40	1	1								3.1530	.0091	.2000	.0016
41	1	1								6.5227	.0074	.2000	.0008
42	1	1								6.1322	.0126	.2000	.0009
43	1	1										.2000	.0016

ORIGINAL PAGE IS
OF POOR QUALITY

Figure F.2-4. - Continued

Figure 1-2-4-1									
								.0000 REVERSED	
44	19	326.5465	.0000	27.7531	11.7661	2.4144	11.7661	.0091	
45	20	203.6599	.0000	27.7915	7.3281	3.8817	7.3281	.0557	
46	21	87.8000	.0000	27.8473	3.1529	9.0395	3.1529	.0892	
47							161.9690	.2073	
48							149.9690	.0057	
49							212.5337	.0071	
50							14.5413	.0048	
51	22	389.2246	.0000	26.7667	14.5413	1.9053	14.5413	.3500	.0002
52	23	411.9209	.0000	26.7894	15.3877	1.8005	15.3877	.3500	.0002
53	24	789.6285	.0000	26.7440	29.5252	.9348	29.5252	.3500	.0002
54	25	2960.0141	.0000	27.5332	107.5064	2.6810	107.5064	.0049	
55	26	2279.8954	.0000	27.6555	82.4389	.3403	82.4389	.0049	
56	27	2840.4396	.0000	27.5574	103.0733	.2722	103.0733	.0047	
57							3.9064	.0020	1.0500
58							2.2569	.0000	.0002
59							7.9976	.0000	1.0500
60							6.7595	.0000	1.0500
61							1.5024	.0000	1.0500
62							3.2995	.0000	.0005
63	28	281.5990	.0000	26.4076	10.6635	2.5324	10.6635	.0559	
64	29	363.3720	.0000	26.4077	13.7600	1.9626	13.7600	.0434	
65	30	298.3840	.0000	26.4095	11.2983	2.3900	11.2983	.0525	
66							37.3273	.0000	1.0500
67							31.8805	.0000	1.0500
68							55.7982	.0000	.0001
69	31	3298.8447	.0000	26.3868	125.0185	.2160	125.0185	.0049	
70							.8017	.0078	
71							4.9542	.0085	
72							4.9674	.0067	
73	32	21.0609	.0000	26.3228	.8001	33.4316	.8001	.5317	1.3000
74	33	130.2306	.0000	26.2872	4.9541	5.3922	4.9541	.0858	1.3000
75	34	125.7867	.0000	26.2957	4.7835	5.5868	4.7835	.0888	1.3000
76							.0000	.0000	1.3000
77							.0000	.0000	1.3000
78							.1812	.0000	1.3000
79							.0011	.0000	.0005
80							.1822	.0000	.0005
81	36	4.7969	.0030	26.2994	.1822	146.7023	.0000	2.3333	
82	37	.0000	.0000	26.7486	.0000	INF.	.0000	.0000	
83							.0000	.2526	1.4000
84							.6246	.1970	1.0500
85							.3570	.1955	1.0500
86							1.0386	.1900	1.0500
87							.0889	.2058	1.4000
88							1.1115	.1499	1.0500
89							1.6843	.1372	1.0500
90							2.8169	.0894	1.0500
91							.0636	.2221	1.4000
92							.1947	.0212	3.9000
93	38	4.6492	.0000	23.8756	.1947	122.6318	.1945	.0212	3.9000
94	39	4.6393	.0000	23.8521	.1945	122.6536	.1919	.0538	.0006
95	40	4.5867	.0000	23.8998	.1919	124.5884	2.5281	.2426	
96	41	68.6802	.0000	27.1663	2.5281	10.9883	1.3358	.1838	
97	42	90.5454	.0000	27.1433	3.3358	8.3207	1.3402	.4582	
98	43	36.4475	.0000	27.1962	1.3402	20.7513	69.6977	.0073	
99							55.1650	.0117	
100							33.2894	.0189	
101							25.1981	.0000	
102									1.0500
103									.0003

Figure 6.2-4. - Continued

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OF POOR
QUALITY

Figure 6.2-4. - Continued

161	73	1	40.7804	.0000	27.4201	1.4872	19.1361	1.4872	.6932		
162	74	1	37.1819	.0000	27.4184	1.3561	20.9790	1.3561	.7602		
163	75	1	36.2299	.0000	27.1923	1.3323	21.0896	1.3323	.6801	.3500	.0002
164	76	1	12.3484	.0000	27.1981	.4540	61.8950	.4540	1.9886	.3500	.0003
165	77	1	32.2952	.0000	27.1929	1.1876	23.6601	1.1876	.7630	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								6.8779	.0000	1.0500	.0003
168								5.2199	.0000	1.0500	.0002
169								7.4309	.0000	1.0500	.0002
170								1.7093	.0000	1.0500	.0003
171								1.6072	.0000	1.0500	.0002
172	78	1	199.5757	.0000	26.8555	7.4314	3.6869	7.4314	.0732		
173	79	1	230.6413	.0000	26.8670	8.5845	3.1916	8.5845	.0612		
174	80	1	183.3597	.0000	26.8519	6.8285	4.0123	6.8285	.0800		
175	81	1	.0000	.0000	26.7987	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	26.8011	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.7993	.0000	INF.	.0000	.0000	1.6500	.0005
178								14.7438	.0011		
179								11.7394	.0010		
180								11.1649	.0011		
181	84	1	317.4917	.0000	26.7626	11.8632	2.2887	11.8632	.0326	1.3000	.0001
182	85	1	314.1251	.0000	26.7627	11.7374	2.3132	11.7374	.0330	1.3000	.0001
183	86	1	288.1189	.0000	26.7574	10.7678	2.5210	10.7678	.0359	1.3000	.0001
184								.0001	.0000	1.3000	.0028
185								.3946	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								2.8777	.0000	1.3000	.0021
188	88	1	.0000	.0000	27.1513	.0000	INF.	.0000	.0000		
189	89	1	87.5591	.0000	26.7608	3.2719	8.2964	3.2719	.1174	1.3000	REVERSED
190								.0000	.0000	1.3000	.0013
191								.0001	.0000	1.3000	REVERSED
192								.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	27.1513	.0000	INF.	.0000	.0000		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-4. - Concluded

1A	781.8133	-.7736	8.7877	835.7400	-.49355	7.2673	.7528	.8270	1038.5383
1B	732.6133	-.7649	8.3287	781.4697	-.9375	6.7954	.7563	.8159	948.6998
1C	720.6133	-.7529	8.3224	774.8668	-.9300	6.7380	.7563	.8096	952.7720
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7551									
2A	580.1600	-.8104	6.2250	584.9105	-.49919	5.0862	.7650	.8171	758.3791
2B	584.2800	-.8046	6.3148	590.6134	-.49893	5.1358	.7650	.8133	763.7647
2C	579.6800	-.7872	6.4036	589.8708	-.49827	5.1293	.7650	.8010	757.7516
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	669.4133	-.7715	7.5447	700.6926	-.49554	6.0929	.7608	.8076	872.9213
3B	695.2133	-.7727	7.8240	731.0786	-.49509	6.3572	.7596	.8125	915.2254
3C	786.8133	-.7776	8.7984	838.9552	-.49378	7.2953	.7527	.8292	1045.2932
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7574									
ACCUMULATED WATT-HRS OF SOURCES 9698.03 AND LOADS 8911.35 8911.58									

Figure 6.2-5.- Circuit solution at 15 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME .29000 TIME STEP .01000 NEXT INPUT TIME .25917													
TOTAL SOURCE POWER 28212.3803 TOTAL DC/AC LOAD 28146.5452 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 9													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

1	1		28.87	123.98						123.9830	.0006		
2	2		29.09	110.48						110.4810	.0005		
3	3		29.13	337.24						337.2370	.0005		
4	4				.0000	.0000	28.6894	.0000	INF.	.0000	.0000		
5	5				.0000	.0000	28.9421	.0000	INF.	.0000	.0000		
6	6				.0000	.0000	28.9601	.0000	INF.	.0000	.0000		
7	7									123.9819	.0003		
8	8									110.2864	.0002		
9	9									337.0588	.0005		
10	10									.0000	.0016		
11	11									.0000	.0002		
12	12				.0000	.0000	28.6013	.0000	INF.	.0000	.0009		
13	13				.0000	.0000	28.8729	.0000	INF.	.0000	.0000		
14	14				.0000	.0000	28.8070	.0000	INF.	.0000	.0000		
15	15									.0000	.0000		
16	16									23.9417	.0016		
17	17									56.2708	.0014		
18	18									8.9923	.0015		
19	19				.0000	.0000	27.0571	20.7729	1.3769	20.7729	.0743		
20	20				.0000	.0000	27.3821	21.3520	1.3459	21.4520	.0714		
21	21				.0000	.0000	27.2729	42.2662	1.6816	42.2662	.0363		
22	22				.0000	.0000	27.1819	5.4682	3.2308	5.4682	.2669		
23	23				.0000	.0000	27.4010	3.3843	8.29821	3.3843	.4375		
24	24									11.2018	.0317		
25	25									13.4314	.0312		
26	26									.0000	.3900		
27	27									.0000	.3900		
28	28									11.0978	.0058		
29	29									24.5091	.0304		
30	30				.0000	.0000	27.6434	24.5091	1.1583	24.5091	.0000		
31	31				.0000	.0000	27.7090	.1239	229.6856	.1239	6.0000		
32	32									14.6813	.0183		
33	33									23.7504	.0206		
34	34									18.1836	.0195		
35	35									11.8525	.0129		
36	36				.0000	.0000	27.5868	11.8525	2.3904	13.4218	.0555		
37	37				.0000	.0000	27.6394	13.4218	2.1148	13.4218	.0845		
38	38				.0000	.0000	27.7015	8.8914	3.2000	8.8914	.0074	.2000	.0009
39	39									2.8286	.0126	.2000	.0016
40	40									1.2807	.0091	.2000	.0008
41	41									3.1857	.0074	.2000	.0009
42	42									9.0478	.0126	.2000	.0016
43	43									6.1064	.0126	.2000	.0016

Figure 6.2-5. - Continued

[illegible]

Figure 6.2-5. - Continued

OF POOR QUALITY

Figure 6.2-5. - Continued

161	73	1	23.8732	.0000	27.2684	.8755	32.3181	.8755	1.1717		
162	74	1	24.3077	.0000	27.2654	.8915	31.7334	.8915	1.1506		
163	75	1	38.2299	.0000	27.0284	1.3404	20.8441	1.3404	.6801	.3500	.0002
164	76	1	12.3398	.0000	27.0365	.4564	61.2259	.4564	1.9886	.3500	.0003
165	77	1	32.2952	.0000	27.0292	1.1948	23.3851	1.1948	.7630	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								4.5443	.0000	1.0500	.0003
168								5.4470	.0000	1.0500	.0002
169								7.4347	.0000	1.0500	.0002
170								.0000	.0000	1.0500	REVERSED
171								.7677	.0000	1.0500	.0002
172	78	1	198.5133	.0000	26.6966	7.4359	3.6636	7.4359	.0734		
173	79	1	121.2600	.0000	26.6868	4.5438	5.9955	4.5438	.1224		
174	80	1	165.9607	.0000	26.6918	6.2177	4.3811	6.2177	.0882		
175	81	1	.0000	.0000	26.6402	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	26.6442	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.6411	.0000	INF.	.0000	.0000	1.6500	.0005
178								12.7419	.0011		
179								6.9139	.0011		
180								7.5497	.0011		
181	84	1	315.9782	.0000	26.5818	11.8870	2.2703	11.8870	.0339	1.3000	.0001
182	85	1	183.8588	.0000	26.6036	6.9110	3.9064	6.9110	.0568	1.3000	.0001
183	86	1	138.8479	.0000	26.5997	5.1447	5.2461	5.1447	.0757	1.3000	.0001
184								.0000	.0000	1.3000	.0001
185								2.4020	.0000	1.3000	.0028
186								.0000	.0000	1.3000	.0021
187								.0000	.0000	1.3000	REVERSED
188	88	1	.0000	.0000	26.9972	.0000	INF.	.8521	.0000	1.3000	.0021
189	89	1	86.5590	.0000	26.6028	3.2538	8.2934	.0000	.0000		
190								3.2538	.1174		
191								.0000	.0000	1.3000	REVERSED
192								.0000	.0000	1.3000	.0013
193	87	1	.0000	.0000	26.9972	.0000	INF.	.0000	.0000	1.3000	REVERSED
194								.0000	.0000		
195		0						.0000	.0217	.3800	.0020
196		0						.0000	.0410	.3800	.0021
197		0						.0001	.0217	.3900	.0025
198		0						.0000	.0410	.3900	.0024
199		0						.0001	.0217	.3900	.0022
200		0						.0000	.0410	.3900	.0021
201		0						.0001	.0217	.3900	.0023
202		0						.0000	.0410	.3900	.0021
203		0						.0000	.0000	1.0500	.0053
204		0						.0000	.1460	1.0500	.0053
205		0						.0000	.0000	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207		0						.0000	.1340		
208		0						.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212		0						.0000	.1340		
213		0						.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-5. - Continued

[illegible]

1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
25	25	25	25	25															

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE SWITCH CON	1	1	1
CURRENT	323.98	310.89	317.28
VOLTAGE	28.87	29.09	29.13
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SDC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	3115.30	8.70	9.80
H2	366.00	366.90	1.10	

[illegible]

Figure 6.2-5. - Concluded

1A	781.8133	-.7736	8.7877	835.7400	-.9355	7.2673	.7528	.8270	1038.5383
1B	732.6133	-.7649	8.3287	781.4697	-.9375	6.7954	.7563	.8159	968.6998
1C	694.2133	-.7456	8.0959	746.8432	-.9295	6.4943	.7581	.8022	915.7859
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7556									
2A	558.9600	-.8028	6.0542	563.3373	-.9922	4.8986	.7650	.8091	730.6667
2B	584.2800	-.8046	6.3148	590.6134	-.9893	5.1358	.7650	.8133	763.7647
2C	568.6800	-.7889	6.2681	577.0539	-.9855	5.0179	.7650	.8005	743.3725
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	647.6133	-.7636	7.3745	678.5514	-.9544	5.9006	.7615	.8001	850.4783
3B	695.2133	-.7727	7.8240	731.0786	-.9509	6.3572	.7596	.8125	915.2254
3C	786.8133	-.7776	8.7984	838.9552	-.9378	7.2953	.7527	.8292	1045.2932
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7576									
ACCUMULATED WATT-HRS OF SOURCES			11970.45 AND LOADS		11014.58	11014.86			

Figure 6.2-6.- Circuit solution at 16 minutes MET

DC DISTRIBUTION NETWORK STATUS															

MISSION ELAPSED TIME .26667 TIME STEP .00558 NEXT INPUT TIME .27583															
TOTAL SOURCE POWER 25495.0066 TOTAL DC/AC LOAD 23751.8516 REFERENCE MODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6															
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	RESISTANCE	LOAD CURRENT	BRANCH RESISTANCE	BRANCH VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	

	1		29.46	290.28						290.2760	.0006				
	2		29.37	279.68						279.8804	.0005				
	3		29.41	299.64						299.6362	.0005				
	4				.0000	.0000	28.9950	.0000	INF.	.0000	.0000				
	5				.0000	.0000	29.2355	.0000	INF.	.0000	.0000				
	6				.0000	.0000	29.2644	.0000	INF.	.0000	.0000				
	7									290.2720	.0003				
	8									279.5591	.0002				
	9									299.4401	.0005				
	10									.0000	.0016				
	11									.0000	.0002				
	12				.0000	.0000	28.9161	.0000	INF.	.0000	.0000				
	13				.0000	.0000	29.1732	.0000	INF.	.0000	.0000				
	14				.0000	.0000	29.1285	.0000	INF.	.0000	.0000				
	15									.0000	.0000				
	16									93.4468	.0016				
	17									56.2387	.0014				
	18									9.2110	.0015				
	19				.0000	.0000	21.3814	20.5593	1.4065	20.5593	.0743				
	20				.0000	.0000	21.6574	21.2431	1.3733	21.2431	.0714				
	21				.0000	.0000	21.6104	41.8231	1.6965	41.8231	.0363				
	22				.0000	.0000	27.4422	5.5226	5.2359	5.5226	.2569				
	23				.0000	.0000	27.6877	3.3934	8.9919	3.3934	.4375				
	24									11.2704	.0317				
	25									13.5136	.0312				
	26									.0000	.3900				
	27									.0000	.3900				
	28									11.1451	.0058				
	29				.0000	.0000	27.9578	24.6587	1.1642	24.6587	.0304				
	30				.0000	.0000	28.0209	.1251	229.9762	.1251	.0000				
	31									14.8307	.0183				
	32									23.3018	.0206				
	33									18.3844	.0195				
	34									11.9049	.0529				
	35				.0000	.0000	27.8956	11.9049	2.4061	11.9049	.0555				
	36				.0000	.0000	27.9445	13.5012	2.1253	13.5012	.0555				
	37				.0000	.0000	28.0201	8.8793	3.2401	8.8793	.0845				
	38									2.9259	.0074	.2000	.0009		
	39									.9647	.0126	.2000	.0016		
	40									3.1485	.0091	.2000	.0008		
	41														

Figure 6.2-6. - Continued

44	19	326.5695	.0000	27.7656	11.7616	2.4164	11.7616	.0091	.2000	REVERSED
45	20	203.7177	.0000	27.8269	7.3209	3.8903	7.3209	.0557		
46	21	87.8000	.0000	27.8462	3.1485	9.0642	3.1485	.0892		
47							114.2163	.2073		
48							127.8046	.0057		
49							177.7017	.0071		
50								.0048		
51	22	402.0197	.0000	26.9797	14.9007	1.8735	14.9007	.0626	.3500	.0002
52	23	394.4250	.0000	26.9816	14.6182	1.9099	14.6182	.0639	.3500	.0002
53	24	792.5951	.0000	26.9816	49.3971	.9497	29.9771	.0324	.3500	.0002
54	25	2058.1800	.0000	27.9083	73.7475	.3433	73.7475	.0049		
55	26	1407.6863	.0000	28.0251	50.2293	.5628	50.2293	.0049		
56	27	1954.9503	.0000	27.9302	69.9938	.4039	69.9938	.0049		
57								.0000		
58							4.5460	.0000	1.0500	REVERSED
59							8.5819	.0000	1.0500	.0002
60							9.2939	.0000	1.0500	.0005
61							9.1692	.0000	1.0500	.0002
62							2.3811	.0000	1.0500	.0002
63	28	247.3189	.0000	26.6164	9.2919	2.9291	9.2919	.0546		
64	29	364.8224	.0000	26.6230	13.7032	1.9862	13.7032	.0434		
65	30	299.8240	.0000	26.6232	11.2617	2.4166	11.2617	.0525		
66							46.2051	.0000	1.0500	.0001
67							22.3568	.0000	1.0500	.0001
68							55.4518	.0000	1.0500	.0001
69	31	3299.3908	.0000	26.6040	124.0179	.2194	124.0179	.0049		
70							8.075	.0079		
71							2.9051	.0085		
72							4.7866	.0067		
73	32	21.3878	.0000	26.5308	.8061	33.4427	.8061	.5317	1.3000	.0005
74	33	76.1710	.0000	26.5150	2.8727	9.3793	2.8727	.1491	1.3000	.0003
75	34	126.8722	.0000	26.5059	4.7865	5.6279	4.7865	.0895	1.3000	.0008
76							.0267	.0000	1.3000	.0005
77							.0000	.0000	1.3000	REVERSED
78							.0000	.0000	1.3000	REVERSED
79							.0006	.0000	1.3000	.0005
80	36	.7303	.0000	26.5158	.0275	978.3437	.0275	15.5556		
81	37	.0000	.0000	26.9598	.0000	INF.	.0000	.0000		
82							.0000	.2526	1.4000	REVERSED
83							.0000	.1970	1.0500	REVERSED
84							.0000	.1955	1.0500	REVERSED
85							1.0770	.1900	1.0500	.0026
86							3.3173	.2058	1.4000	.0024
87							1.3828	.1492	1.0500	.0026
88							1.6509	.1372	1.0500	.0026
89							3.2147	.0894	1.0500	.0026
90							.1504	.2221	1.4000	.0026
91							.1952	.0212	1.9000	.0002
92							.1946	.0212	1.9000	.0002
93							.1921	.0538	3.9000	.0006
94	38	4.6723	.0000	23.9300	.1952	122.5823	.1952	.0212		
95	39	4.6449	.0000	23.8653	.1946	122.6413	.1946	.0212		
96	40	4.5953	.0000	23.9202	.1921	124.5696	.1921	.0538		
97	41	88.9375	.0000	27.2197	2.5326	10.9902	2.5326	.2426		
98	42	90.6278	.0000	27.1562	3.3373	8.3210	3.3373	.1838		
99	43	36.4987	.0000	27.2162	1.3411	20.7528	1.3411	.4582		
100							41.6976	.0073		
101							47.5784	.0117		
102							27.5335	.0169		
103							25.1470	.0000	1.0500	.0003

Figure 6.2-f. - Continued

LINE	DATE	DESCRIPTION	AMOUNT	CHECK	BALANCE	DEBIT	CREDIT	REMARKS
104								
105								
106								
107								
108								
109	44	679.5870	.0000	27.0243	25.1472	1.1148		
110	45	23.7439	.0000	27.1119	25.1472	1.1148		
111	46	24.4866	.0000	27.0794	25.1472	1.1148		
112	47	2529.1066	.0000	27.0640	25.1472	1.1148		
113	48	785.2330	.0000	27.4240	25.1472	1.1148		
114	49	70.1260	.0000	27.4460	25.1472	1.1148		
115								
116								
117	50		.0000	27.7166	.0000	INF.		
118	51		.0000	27.7166	.0000	INF.		
119	52		.0000	27.7166	.0000	INF.		
120								
121								
122	53		.0000	.0000	.0000	INF.		
123	54		.0000	.0000	.0000	INF.		
124								
125								
126	55		.0000	.0000	.0000	INF.		
127	56		.0000	.0000	.0000	INF.		
128								
129								
130	57		.0000	.0000	.0000	INF.		
131			.0000	.0000	.0000	INF.		
132			.0000	.0000	.0000	INF.		
133	60	27.4448	.0000	27.5750	.9953	26.7469		
134	61	26.2510	.0000	27.5750	.9953	26.7469		
135	62	3.9994	.0000	27.5729	.9953	26.7469		
136	63	147.6130	.0000	27.3798	5.3913	5.2420		
137	64	170.0772	.0000	27.3833	5.3913	5.2420		
138	65	164.3062	.0000	27.3755	5.3913	5.2420		
139								
140								
141								
142								
143								
144								
145	66	334.7725	.0000	27.0167	12.3915	2.2241		
146	67	327.8745	.0000	27.0158	12.3915	2.2241		
147	68	386.0618	.0000	27.0127	12.3915	2.2241		
148								
149								
150								
151								
152								
153								
154	69		.0000	26.2647	.0000	INF.		
155	70		.0000	26.2647	.0000	INF.		
156	71		.0000	26.2611	.0000	INF.		
157								
158								
159								
160	72	223.7912	.0000	27.5406	8.1258	3.5198		

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OF POOR QUALITY

Figure 6.2-6. - Continued

161	73	24.3731	.0000	27.5687	.8841	32.3551	.8841	1.1717		
162	74	24.8177	.0000	27.5662	.9003	31.7698	.9003	1.1506		
163	75	36.4229	.0000	27.3500	1.3247	21.3270	1.3247	.6801	.3500	.0002
164	76	12.5567	.0000	27.3563	.4517	62.5524	.4517	1.9586	.3500	.0003
165	77	32.2952	.0000	27.3508	1.1808	23.9268	1.1808	.7630	.3500	.0003
166							.0000	.0000	1.0500	REVERSED
167							.4508	.0000	1.0500	.0003
168							5.3918	.0000	1.0500	.0002
169							7.3832	.0000	1.0500	.0002
170							.0000	.0000	1.0500	REVERSED
171							.7740	.0000	1.0500	.0002
172	78	199.3989	.0000	27.0109	7.3821	3.7324	7.3821	.0734		
173	79	121.2660	.0000	27.0036	4.4907	6.1356	4.4907	.1224		
174	80	166.5213	.0000	27.0073	6.1658	4.4624	6.1658	.0862		
175	81	.0000	.0000	26.9311	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	26.9546	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	26.9520	.0000	INF.	.0000	.0000	1.6500	.0005
178							12.7463	.0011		
179							5.9476	.0010		
180							7.5868	.0011		
181	84	319.0631	.0000	26.8934	11.8639	2.3009	11.8639	.0339	1.3000	.0001
182	85	186.7820	.0000	26.9122	6.9404	3.9346	6.9404	.0568	1.3000	.0001
183	86	139.3016	.0000	26.9080	5.1769	5.2735	5.1769	.0757	1.3000	.0001
184							.0002	.0000	1.3000	.0028
185							2.4094	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							.6797	.0000	1.3000	.0021
188	88	.0000	.0000	27.3075	.0000	INF.	.0000	.0000		
189	89	28.4998	.0000	26.9994	3.2888	2.2996	3.2888	.1174	1.3000	REVERSED
190							.0000	.0000	1.3000	.0013
191							.0000	.0000	1.3000	REVERSED
192							.0000	.0000		
193	87	.0000	.0000	27.3075	.0000	INF.	.0000	.0000		
194							.0001	.0217	.3800	.0020
195							.0000	.0410	.3800	.0021
196							.0001	.0217	.3900	.0024
197							.0000	.0410	.3900	.0022
198							.0001	.0217	.3900	.0021
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0021
201							.0000	.0410	.3900	.0021
202							.0000	.0410	.3900	.0021
203							.0000	.0410	.3900	.0021
204							.0000	.0410	.3900	.0021
205							.0000	.0410	.3900	.0021
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207							.0000	.1310	1.0500	.0053
208							.0000	.1310	.2000	.0023
209							.0000	.1310	.2000	.0023
210	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	92	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
212	93	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-6. - Continued

218		0					.0000	.0070		
219		0					.0000	.0062		
220	98	1	.0000	.0000	.0000	.0000	INF.	.0000		
221		0					.0000	.0000		
222		0					.0000	.0000		
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000		
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000		
225		0					.0000	.0000		
226		0					.0000	.0007		
227		1					.0000	.0002		
228		1					.0131	.0002		
229		1					.0010	.0002		
230	101	1	.0000	.0000	29.2644	.0000	INF.	.0000		
231		0					.0000	.0022		
232		0					.0000	.0002		
233		0					.0000	.0002		
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000		
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500	.0007
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500	.0008
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500	.0007
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500	.0008

194	1	10	10	28.0000	28.9950	29.2355	29.2644	28.9161	29.1732	29.1285	.0000	.0000	.0000
	11	20	20	28.7716	28.7071	28.6445	28.6937	28.7701	28.4202	28.4801	28.5388	28.2652	28.5688
	21	30	30	28.2698	27.2169	27.2176	27.2149	27.2137	28.2598	28.2442	28.2380	28.0000	28.2582
	31	40	40	28.9598	27.8342	27.7695	27.8307	28.7666	29.0916	28.1151	28.0346	28.0644	28.0641
	41	50	50	27.7186	.0000	.0000	.0000	28.6111	28.6147	28.6089	27.5593	27.5582	27.5562
	51	60	60	26.2647	26.2647	26.2611	28.6011	28.6046	28.6020	27.5527	27.5531	27.5510	28.5974
	61	70	70	28.6075	28.6005	27.3075	27.3075	27.2955	28.2211	.0000	28.2146	28.2111	.0000
	71	80	80	28.2146	.0000	.0000	29.2644	29.2644	29.2644	.0000	.0000	.0000	.0000

SOURCE	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SWITCH CON	1	1	1
CURRENT	290.28	279.88	299.64
VOLTAGE	29.16	29.37	29.41
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	3114.98	9.02	10.16
02	368.00	366.86	1.14	

[illegible]

Figure 6.2-6. - Concluded

1A	578.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7835	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0829	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	372.6880	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7508	487.0588
2C	351.0000	-.7237	4.2895	357.0293	.9999	3.1048	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8554	499.0334	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 12420.25 AND LOADS 11432.36 11432.65									

Figure 6.2-7.- Circuit solution at 20 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME .33333 TIME STEP .01386 NEXT INPUT TIME .36972													
TOTAL SOURCE POWER 25441.9089 TOTAL DC/AC LOAD 23699.2305 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT	

1	1	1	29.16	290.15						290.1465	.0006		
2	2	1	29.37	279.66						279.6621	.0005		
3	3	1	29.43	298.01						298.0139	.0005		
4	4	1			.0000	.0000	28.9963	.0000	INF.	.0000	.0000		
5	5	1			.0000	.0000	29.2376	.0000	INF.	.0000	.0000		
6	6	1			.0000	.0000	29.2784	.0000	INF.	.0000	.0000		
7	7	1								290.1475	.0003		
8	8	1								279.3838	.0002		
9	9	1								297.7827	.0005		
10	10	1								.0000	.0016		
11	11	1								.0000	.0002		
12	12	1								.0000	.0009		
13	13	5			.0000	.0000	28.9173	.0000	INF.	.0000	.0000		
14	14	5			.0000	.0000	29.1753	.0000	INF.	.0000	.0000		
15	15	5			.0000	.0000	29.1432	.0000	INF.	.0000	.0000		
16	16	5								.0000	.0000		
17	17	7			563.0926	.0000	27.3891	20.5585	1.4066	20.5585	.0743		
18	18	9			587.5368	.0000	27.6596	21.2416	1.3735	21.2416	.0714		
19	19	9			1154.8468	.0000	27.6258	41.8030	.6972	41.8030	.0363		
20	20	10			151.5665	.0000	27.4434	5.5228	5.2360	5.5228	.2669		
21	21	11			94.0249	.0000	27.6897	3.3956	8.5920	3.3956	.1375		
22	22	11								9.2085	.0317		
23	23	11								11.0274	.0312		
24	24	11								.0000	.3900		
25	25	11								.0000	.3900		
26	26	11								9.0750	.0058		
27	27	12			563.8400	.0000	28.0485	20.1022	1.4326	20.1022	.0374		
28	28	15			3.5265	.0000	28.0988	.1255	229.8906	1255	6.0000		
29	29	15								14.7354	.0183		
30	30	15								23.1841	.0206		
31	31	15								18.5944	.0195		
32	32	16			332.1459	.0000	27.8986	11.9054	2.4063	11.9054	.0629		
33	33	17			377.3810	.0000	27.9490	13.5024	2.1254	13.5024	.0555		
34	34	18			248.8954	.0000	28.0307	8.8793	3.2413	8.8793	.0845		
35	35	18								2.8301	.0074	.2000	.0009
36	36	18								.7516	.0126	.2000	.0016
37	37	18								3.1473	.0091	.2000	.0008
38	38	18								8.9301	.0074	.2000	.0009
39	39	18								6.5678	.0126	.2000	.0016
40	40	18											
41	41	18											
42	42	18											
43	43	18											

Figure 6.2-7. - Continued

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Figure 6.2-7. - Continued

[illegible]

Figure 6.2-7. - Continued

161	73	24.3636	.0000	27.5629	.0039	32.3544	.0039	1.1717		
162	74	24.8087	.0000	27.5609	.9001	31.7691	.9001	1.1506		
163	75	36.2299	.0000	27.3442	1.3249	21.3184	1.3249	.6801	.3500	.0002
164	76	12.3564	.0000	27.3501	.4518	62.5271	.4518	1.9886	.3500	.0003
165	77	32.2952	.0000	27.3451	1.1810	23.9173	1.1810	.7630	.3500	.0003
166							.0000	.0000	1.0500	REVERSED
167							4.4979	.0000	1.0500	.0003
168							5.6026	.0000	1.0500	.0002
169							7.3822	.0000	1.0500	.0002
170							.0000	.0000	1.0500	REVERSED
171							.5619	.0000	1.0500	.0002
172	78	199.3821	.0000	27.0049	7.3831	3.7311	7.3831	.0734		
173	79	121.2659	.0000	26.9976	4.4917	6.1329	4.4917	.1224		
174	80	166.5114	.0000	27.0017	6.1667	4.4668	6.1667	.0882		
175	81	.0000	.0000	26.9456	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	26.9487	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	26.9465	.0000	INF.	.0000	.0000	1.6500	.0005
178							14.9107	.0011		
179							9.6452	.0010		
180							8.1249	.0011		
181	84	391.6313	.0000	26.8882	14.5650	1.8736	14.5650	.0274	1.3000	.0001
182	85	259.4288	.0000	26.9056	9.6421	2.8312	9.6421	.0407	1.3000	.0001
183	86	139.2534	.0000	26.9021	5.1763	5.2730	5.1763	.0757	1.3000	.0001
184							.0000	.0000	1.3000	.0028
185							2.9454	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							.3425	.0000	1.3000	.0021
188	88	.0000	.0000	27.2987	.0000	INF.	.0000	.0000		
189	89	88.4563	.0000	26.9025	3.2880	8.2994	3.2880	.1174	1.3000	REVERSED
190							.0000	.0000	1.3000	.0013
191							.0000	.0000	1.3000	REVERSED
192							.0000	.0000		
193	87	.0000	.0000	27.2987	.0000	INF.	.0000	.0000		
194							.0001	.0217	.3900	.0020
195							.0000	.0410	.3800	.0021
196							.0001	.0217	.3900	.0025
197							.0000	.0410	.3900	.0024
198							.0001	.0217	.3900	.0022
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0023
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207							.0000	.1310	.2000	.0023
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212							.0000	.1310	.2000	.0023
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-7. - Continued

[illegible][illegible]

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	290.15	279.66	298.01
VOLTAGE	29.16	29.37	29.43
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AM REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	3113.75	10.25	11.55
H2	366.00	366.71	1.29	

[illegible]

Figure 6.2-7. - Concluded

1A	570.1333	-.7274	8.8165	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	8.3682	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	1.0330	.7650	.7485	453.9608
2B	374.6000	-.7499	4.3208	372.9546	.9990	1.2831	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9999	1.1096	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.9333	-.7181	5.8555	499.0934	-.9488	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7649									
ACCUMULATED WATT-HRS OF SOURCES 14129.25 AND LOADS 13023.82 13024.13									

Figure 6.2-8.- Circuit solution at 25 minutes MET

***** DC DISTRIBUTION NETWORK STATUS *****													

MISSION ELAPSED TIME .41667 TIME STEP .00442 NEXT INPUT TIME .45667													
TOTAL SOURCE POWER 24809.2004 TOTAL DC/AC LOAD 23119.4094 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

202	1	1	29.22	282.42						282.4215	.0006		
			29.43	272.46						272.4629	.0005		
			29.49	289.41						289.4085	.0005		
					.0000	.0000	29.0685	.0000	INF.	.0000	.0000		
					.0000	.0000	29.3072	.0000	INF.	.0000	.0000		
					.0000	.0000	29.3515	.0000	INF.	.0000	.0000		
										282.4173	.0003		
										272.2067	.0002		
										289.1660	.0005		
										.0000	.0016		
202	2	1			.0000	.0000	28.9917	.0000	INF.	.0000	.0002		
					.0000	.0000	29.2465	.0000	INF.	.0000	.0009		
					.0000	.0000	29.2202	.0000	INF.	.0000	.0000		
										.0000	.0000		
										93.3306	.0016		
										56.1586	.0014		
										9.3489	.0015		
					480.4700	.0000	27.4674	16.7639	1.7294	16.7639	.0959		
					481.9864	.0000	27.7344	17.3787	1.6829	17.3787	.0870		
					946.3906	.0000	27.7067	34.1574	.8555	34.1574	.0443		
202	3	1			152.3068	.0000	27.5144	5.5355	5.2374	5.5355	.2669		
					94.4573	.0000	27.7577	3.4029	8.5945	3.4029	.4371		
										9.2173	.0317		
										11.0474	.0312		
										.0000	.3900		
										.0000	.3900		
					566.3730	.0000	28.1235	20.1387	1.4338	20.1387	.0058		
					3.5464	.0000	28.1730	.1259	229.8132	20.1387	.0374		
										.1259	6.0000		
										14.7617	.0183		
202	4	1			333.3574	.0000	27.9717	11.9176	2.4100	11.9176	.0206		
					378.9851	.0000	28.0213	13.5234	2.1276	13.5234	.0195		
					249.5736	.0000	28.1064	8.8796	3.2498	13.5234	.0629		
										8.8796	.0555		
										2.8441	.0845		
										.6640	.0074	.2000	.0009
										3.1380	.0126	.2000	.0016
										8.8893	.0091	.2000	.0008
										6.6419	.0074	.2000	.0009
											.0126	.2000	.0016

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Figure 6.2-8. - Continued

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Figure 6.2-8. - Continued

161	73	1	24.5244	.0000	27.6598	.8867	32.3675	.8867	1.1717		
162	74	1	24.9734	.0000	27.6580	.9029	31.7821	.9029	1.1506		
163	75	1	38.2299	.0000	27.4879	1.3199	21.4751	1.3199	.6801	.3500	.0002
164	76	1	12.3619	.0000	27.4532	.4503	62.9563	.4503	1.9886	.3500	.0003
165	77	1	32.2952	.0000	27.4488	1.1765	24.0933	1.1765	.7630	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								.4735	.0000	1.0500	.0003
168								5.8849	.0000	1.0500	.0002
169								7.3650	.0000	1.0500	.0002
170								.0000	.0000	1.0500	REVERSED
171								.2654	.0000	1.0500	.0002
172	78	1	199.6669	.0000	27.1063	7.3662	3.7532	7.3662	.0734		
173	79	1	121.2678	.0000	27.0998	4.4749	6.1783	4.4749	.1224		
174	80	1	166.6922	.0000	27.1034	6.1502	4.4951	6.1502	.0862	1.6500	.0005
175	81	1	.0000	.0000	27.0458	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.0488	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.0469	.0000	INF.	.0000	.0000	1.6500	.0005
178								14.8120	.0011		
179								7.5528	.0010		
180								8.7469	.0011		
181	84	1	393.1397	.0000	26.9882	14.5670	1.8802	14.5670	.0274	1.3000	.0001
182	85	1	260.8839	.0000	27.0049	9.6606	2.8361	9.6606	.0407	1.3000	.0001
183	86	1	140.0480	.0000	27.0018	5.1866	5.2819	5.1866	.0757	1.3000	.0001
184								.0002	.0000	1.3000	.0028
185								3.0571	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								.2423	.0000	1.3000	.0021
188	88	1	.0000	.0000	27.3988	.0000	INF.	.0000	.0000		
189	89	1	89.0819	.0000	27.0014	3.2991	8.3018	3.2991	.1174	1.3000	REVERSED
190								.0000	.0000	1.3000	.0013
191								.0000	.0000	1.3000	REVERSED
192								.0000	.0000		
193	87	1	.0000	.0000	27.3988	.0000	INF.	.0000	.0217	.3800	.0020
194								.0001	.0410	.3800	.0021
195								.0000	.0217	.3900	.0025
196								.0001	.0410	.3900	.0024
197								.0000	.0217	.3900	.0021
198								.0001	.0410	.3900	.0023
199								.0000	.0217	.3900	.0021
200								.0000	.0410	.3900	.0021
201								.0000	.0000	1.0500	.0053
202								.0000	.1460	1.0500	.0053
203								.0000	.0000	1.0500	.0053
204								.0000	.1460	1.0500	.0053
205								.0000	.1340		
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
207								.0000	.1310	.2000	.0023
208								.0000	.0000		
209								.0000	.1340		
210	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
212	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
213								.0000	.0000		
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.2370		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000			

218						.0000	.0070		
219						.0000	.0062		
220	98		.0000	.0000	.0000	.0000 INF.	.0000		
221							.0000		
222							.0000		
223	99		.0000	.0000	.0000	.0000 INF.	.0000		
224	100		.0000	.0000	.0000	.0000 INF.	.0000		
225							.0000		
226							.0000	.0007	
227							.0000	.0002	
228							.0226	.0002	
229							.0000	.0002	
230	101		.0000	.0000	29.3515	.0000 INF.	.0000	.0002	
231						.	.0000	.0022	
232							.0000	.0002	
233							.0000	.0002	
234	102		.0000	.0000	.0000	.0000 INF.	.0000	.0002	
235	103		.0000	.0000	.0000	.0000 INF.	.0000	.1850	.6500 .0007
236	104		.0000	.0000	.0000	.0000 INF.	.0000	.1850	.6500 .0008
237	105		.0000	.0000	.0000	.0000 INF.	.0000	.1850	.6500 .0007
240	108		.0000	.0000	.0000	.0000 INF.	.0000	.1850	.6500 .0008

[illegible]

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	282.42	272.46	289.41
VOLTAGE	29.22	29.43	29.49
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SDC			
AM REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	3112.24	11.76	13.24
H2	368.00	366.52	1.48	

INVERTER		LOAD (WATT)		PWR. FAC.		CURRENT (AMP)		LOAD (VA)		PWR. FAC.		CURRENT (AMP)		EFFICIENCY PER CENT		CURRENT RATIO		D.C. POWER (WATT)	
*****INVERTER STATUS*****																			
*****SINGLE PHASE INVERTER*****																			

Figure 6.2-8. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	-.7679	746.4588
1B	523.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	-.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	-.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	372.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 16229.51 AND LOADS 14980.56 14980.28									

Figure 6.2-9. - Continued

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Figure 6.2-9. - Continued

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Figure 6.2-9. - Continued

161	73	28.5367	.0000	27.6672	.8860	32.3685	.8869	1.1717		
162	74	24.9859	.0000	27.6656	.9031	31.7831	.9031	1.1717		
163	75	38.2299	.0000	27.4958	1.3196	21.4871	1.3196	1.6801	.3500	.0002
164	76	12.3623	.0000	27.4610	.4502	62.9889	.4502	1.9886	.3500	.0003
165	77	32.2952	.0000	27.4568	1.1762	24.1067	1.1762	.7630	.3500	.0003
166							.0000	.0000	1.0500	REVERSED
167							4.4735	.0000	1.0500	.0003
168							5.8272	.0000	1.0500	.0002
169							7.3622	.0000	1.0500	.0002
170							.0000	.0000	1.0500	REVERSED
171							.0000	.0000	1.0500	.0002
172	78	199.6885	.0000	27.1139	7.3649	3.7549	7.3649	.0734	1.0500	
173	79	121.2679	.0000	27.1075	4.4737	6.1817	4.4737	.1224		
174	80	166.7060	.0000	27.1112	6.1489	4.4973	6.1489	.0882		
175	81	.0000	.0000	27.0535	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	27.0563	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	27.0545	.0000	INF.	.0000	.0000	1.6500	.0005
178							14.8310	.0011		
179							9.6663	.0010		
180							8.2282	.0011		
181	84	393.2557	.0000	26.9959	4.5672	1.8807	14.5672	.0274	1.3000	.0001
182	85	260.9939	.0000	27.0124	9.6620	2.8365	9.6620	.0407	1.3000	.0001
183	86	140.1081	.0000	27.0094	5.1874	5.2826	5.1874	.0757	1.3000	.0001
184							.0002	.0000	1.3000	.0020
185							3.0386	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							.2615	.0000	1.3000	.0021
188	88	.0000	.0000	27.4064	.0000	INF.	.0000	.0000		
189	89	89.1296	.0000	27.0090	3.3000	8.3020	3.3000	.1174	1.3000	REVERSED
190							.0000	.0000	1.3000	.0013
191							.0000	.0000	1.3000	REVERSED
192							.0000	.0000	1.3000	.0020
193	87	.0000	.0000	27.4064	.0000	INF.	.0000	.0000	.3800	.0021
194							.0001	.0217	.3800	.0025
195							.0000	.0410	.3900	.0024
196							.0001	.0217	.3900	.0022
197							.0000	.0410	.3900	.0021
198							.0001	.0217	.3900	.0023
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0023
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207							.0000	.1310	.2000	.0023
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212							.0000	.1310	.2000	.0023
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-9. - Continued

218	0						.0000	.0070		
219	0						.0000	.0062		
220	98	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
221	0	0						.0000	.0000	
222	0	0						.0000	.0000	
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
225	0	0						.0000	.0000	
226	0	0						.0000	.0000	
227	0	0						.0000	.0000	
228	0	0						.0000	.0000	
229	0	0						.0000	.0000	
230	101	0	.0000	.0000	29.3562	.0000	INF.	.0000	.0000	
231	0	0						.0000	.0000	
232	0	0						.0000	.0000	
233	0	0						.0000	.0000	
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	

212	NOFEE	1	TO	10	28.0000	29.0784	29.3122	29.3563	29.0019	29.2517	29.2252	28.0000	28.0000	26.0000
	NOFEE	11	TO	20	28.9333	28.8807	28.7297	28.7783	28.8622	28.5052	28.5685	28.6309	28.3565	26.3591
	NOFEE	21	TO	30	28.8667	28.8141	28.6631	28.7117	28.7956	28.4386	28.5019	28.5652	28.2900	26.3044
	NOFEE	31	TO	40	28.8000	28.7474	28.5964	28.6450	28.7289	28.3719	28.4352	28.4985	28.2226	26.2497
	NOFEE	41	TO	50	28.7333	28.6807	28.5297	28.5783	28.6622	28.3052	28.3685	28.4309	28.1554	26.1950
	NOFEE	51	TO	60	28.6667	28.6141	28.4631	28.5117	28.5956	28.2386	28.3019	28.3652	28.0893	26.1403
	NOFEE	61	TO	70	28.6000	28.5474	28.3964	28.4450	28.5289	28.1719	28.2352	28.2985	28.0226	26.0856
	NOFEE	71	TO	80	28.5333	28.4807	28.3297	28.3783	28.4622	28.1052	28.1685	28.2309	27.9554	26.0309
	NOFEE	81	TO	90	28.4667	28.4141	28.2631	28.3117	28.3956	28.0386	28.1019	28.1652	27.8893	25.9762
	NOFEE	91	TO	100	28.4000	28.3474	28.1964	28.2450	28.3289	27.9719	28.0352	28.0985	27.8226	25.9215
	NOFEE	101	TO	110	28.3333	28.2807	28.1297	28.1783	28.2622	27.9052	27.9685	28.0309	27.7554	25.8668
	NOFEE	111	TO	120	28.2667	28.2141	28.0631	28.1117	28.1956	27.8386	27.9019	27.9652	27.6893	25.8121
	NOFEE	121	TO	130	28.2000	28.1474	27.9964	28.0450	28.1289	27.7719	27.8352	27.8985	27.6226	25.7574
	NOFEE	131	TO	140	28.1333	28.0807	27.9297	27.9783	28.0622	27.7052	27.7685	27.8309	27.5554	25.7027
	NOFEE	141	TO	150	28.0667	28.0141	27.8631	27.9117	27.9956	27.6386	27.7019	27.7652	27.4893	25.6480
	NOFEE	151	TO	160	28.0000	27.9474	27.7964	27.8450	27.9289	27.5719	27.6352	27.6985	27.4226	25.5933
	NOFEE	161	TO	170	27.9333	27.8807	27.7297	27.7783	27.8622	27.5052	27.5685	27.6309	27.3554	25.5386
	NOFEE	171	TO	180	27.8667	27.8141	27.6631	27.7117	27.7956	27.4386	27.5019	27.5652	27.2893	25.4839
	NOFEE	181	TO	190	27.8000	27.7474	27.5964	27.6450	27.7289	27.3719	27.4352	27.4985	27.2226	25.4292
	NOFEE	191	TO	200	27.7333	27.6807	27.5297	27.5783	27.6622	27.3052	27.3685	27.4309	27.1554	25.3745
	NOFEE	201	TO	210	27.6667	27.6141	27.4631	27.5117	27.5956	27.2386	27.3019	27.3652	27.0893	25.3198
	NOFEE	211	TO	220	27.6000	27.5474	27.3964	27.4450	27.5289	27.1719	27.2352	27.2985	27.0226	25.2651
	NOFEE	221	TO	230	27.5333	27.4807	27.3297	27.3783	27.4622	27.1052	27.1685	27.2309	26.9554	25.2104
	NOFEE	231	TO	240	27.4667	27.4141	27.2631	27.3117	27.3956	27.0386	27.1019	27.1652	26.8893	25.1557
	NOFEE	241	TO	250	27.4000	27.3474	27.1964	27.2450	27.3289	26.9719	27.0352	27.0985	26.8226	25.1010
	NOFEE	251	TO	260	27.3333	27.2807	27.1297	27.1783	27.2622	26.9052				

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	281.36	271.94	288.85
VOLTAGE	29.23	29.44	29.50
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SEC REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	3110.77	13.23	14.91
H2	368.00	366.33	1.67	

*****A.C. BUS*****				*****INVERTER STATUS*****					
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-9. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	3.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.7665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	372.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0897
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 18294.44 AND LOADS 16904.85 16905.19									

Figure 6.2-10.- Circuit solution at 35 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME				.58333 TIME STEP				.04417 NEXT INPUT TIME				.58583	
TOTAL SOURCE POWER 24751.4866				TOTAL DC/AC LOAD 23066.1765				REFERENCE NODE 1				ACCURACY .0010	
												SOLUTIONS ATTEMPTED 6	
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

1	1	1	29.23	281.36						281.3623	.0006		
2	2	1	29.44	271.94						271.9398	.0005		
3	3	1	29.50	288.85						288.8460	.0005		
4	4	1			.0000	.0000	29.0784	.0000	INF.	.0000	.0000		
5	5	1			.0000	.0000	29.3122	.0000	INF.	.0000	.0000		
6	6	3			.0000	.0000	29.3563	.0000	INF.	.0000	.0000		
7	7	1								281.3629	.0003		
8	8	1								271.6838	.0002		
9	9	1								288.5999	.0005		
10	10	1								.0000	.0016		
11	11	1								.0000	.0002		
12	12	1								.0000	.0009		
13	13	5			.0000	.0000	29.0019	.0000	INF.	.0000	.0000		
14	14	5			.0000	.0000	29.2517	.0000	INF.	.0000	.0000		
15	15	5			.0000	.0000	29.2252	.0000	INF.	.0000	.0000		
16	16	1								.0000	.0000		
17	17	1								93.3139	.0016		
18	18	1								56.1594	.0014		
19	19	1								9.3506	.0015		
20	20	7			480.4987	.0000	27.4781	16.7584	1.7306	16.7584	.0909		
21	21	8			482.0010	.0000	27.7398	17.3758	1.6835	17.3758	.0670		
22	22	9			946.4179	.0000	27.7120	34.1518	.8557	34.1518	.0443		
23	23	10			96.3559	.0000	27.5241	3.5009	8.2841	3.5009	.4221		
24	24	11			94.4889	.0000	27.7627	3.4034	8.5947	3.4034	.4375		
25	25	1								9.2184	.0317		
26	26	1								11.0488	.0312		
27	27	1								.0000	.3900		
28	28	1								.0000	.3900		
29	29	12			566.5390	.0000	28.1284	20.1411	1.4339	20.1411	.0058		
30	30	15			3.5477	.0000	28.1779	.1259	229.8083	.1259	.0374		
31	31	1								14.8543	.0183		
32	32	1								23.0049	.0206		
33	33	1								18.6265	.0195		
34	34	16			333.4939	.0000	27.9799	11.9190	2.4164	11.9190	.0629		
35	35	17			379.0978	.0000	28.0278	13.5257	2.1277	13.5257	.0555		
36	36	18			249.6247	.0000	28.1121	6.8796	3.2504	6.8796	.0845		
37	37	1								2.9454	.0074	.2000	.0009
38	38	1								.6937	.0126	.2000	.0016
39	39	1								3.1378	.0691	.2000	.0008
40	40	1								8.7855	.0074	.2000	.0009
41	41	1								6.6089	.0126	.2000	.0016
42	42	1											
43	43	1											

Figure 6.2-10. - Continued

48	19	326.7288	.0000	27.8523	11.7307	2.4300	11.7307	.0091	.2000	REVERSED
45	20	203.8647	.0000	27.9110	7.3025	3.9122	7.3025	.0892		
46	21	87.8000	.0000	27.9805	3.1379	9.1243	3.1379	.2073		
47							113.4210	.0057		
48							126.1416	.0071		
49							178.9971	.0048		
50	22	403.2407	.0000	27.0713	14.8960	1.8801	14.8960	.0648	.3500	.0002
51	23	395.5969	.0000	27.0722	14.6126	1.9168	14.6126	.0639	.3500	.0002
52	24	793.5190	.0000	27.0541	29.3306	.9550	29.3306	.0324		
53	25	2058.1800	.0000	27.9998	73.5065	.3858	73.5065	.0049		
54	26	1407.6863	.0000	28.1161	50.0666	.5664	50.0666	.0049		
55	27	1954.9503	.0000	28.0217	69.7651	.4065	69.7651	.0049		
56							9.0399	.0000	1.0500	REVERSED
57							9.0096	.0000	1.0500	.0002
58							9.2754	.0000	1.0500	.0005
59							9.2417	.0000	1.0500	.0002
60							2.2372	.0000	1.0500	.0005
61							9.2699	.0646		
62	28	247.5827	.0000	26.7081	9.2699	2.9458	13.6794	.0434		
63	29	365.4383	.0000	26.7144	13.6794	1.9963	11.2462	.0525		
64	30	300.4385	.0000	26.7144	11.2462	2.4279	45.2189	.0000	1.0500	.0001
65							21.9449	.0000	1.0500	.0001
66							56.4224	.0000	1.0500	.0001
67							123.5972	.0049		
68	31	3299.6232	.0000	26.6964	123.5972	.2209	.8107	.0079		
69							2.9122	.0085		
70							4.8019	.0067		
71							.8087	.5317	1.3000	.0005
72	32	21.5276	.0000	26.6197	.8087	33.4486	2.8819	.1491	1.3000	.0003
73	33	76.8687	.0000	26.8038	2.8819	9.3809	4.8018	.0895	1.3000	.0008
74	34	127.7034	.0000	26.5949	4.8018	5.6288	.0262	.0000	1.3000	.0005
75							.0000	.0000	1.3000	REVERSED
76							.0000	.0000	1.3000	REVERSED
77							.0001	.0000	1.3000	.0005
78							.0276	15.5556		
79	36	.7350	.0000	26.6046	.0276	978.5123	.0000	.0000		
80	37	.0000	.0000	27.0501	.0000	INF.	.0000	.0000		
81							.0000	.2526	1.4000	REVERSED
82							.0000	.1970	1.0500	REVERSED
83							.0000	.1955	1.0500	REVERSED
84							1.0265	.1900	1.0500	.0026
85							.2546	.2058	1.4000	.0024
86							1.3504	.1499	1.0500	.0026
87							1.7095	.1372	1.0500	.0026
88							3.2880	.0894	1.0500	.0026
89							.1872	.2221	1.4000	.0024
90							.1961	.0212	1.9000	.0002
91	38	4.7098	.0000	24.0183	.1961	122.5059	.1955	.0212	3.9000	.0002
92	39	4.6830	.0000	23.9551	.1955	122.5602	.1929	.0538	3.9000	.0006
93	40	4.6301	.0000	24.0037	.1929	124.4956	.5339	.2426		
94	41	89.3549	.0000	27.3062	2.5339	10.9536	3.3470	.1838		
95	42	91.1880	.0000	27.2442	3.3470	8.3235	1.3447	.4582		
96	43	36.7078	.0000	27.2981	1.3447	20.7588	39.5000	.0073		
97							45.5991	.0117		
98							27.2061	.0189		
99							25.0815	.0000	1.0500	.0003
100										
101										
102										
103										

Figure 6.2-10. - Continued

LINE	DATE	DESCRIPTION	AMOUNT	DEBIT	CREDIT	BALANCE	REMARKS
106							
107							
108							
109							
110	44	679.8726	.0000	27.1855	25.0824	1.1208	25.0824
111	45	23.9005	.0000	27.2055	.8785	32.0589	1.0876
112	46	24.5618	.0000	27.1765	.9038	31.1551	1.0889
113	47	2533.7223	.0000	27.1520	93.1148	3054	1.1244
114	48	789.3126	.0000	27.5094	28.6924	1.0045	28.6924
115	49	70.4735	.0000	27.5406	2.5589	11.2790	2.5589
116							
117	50	.0000	.0000	27.8026	.0000	INF.	.0521
118	51	.0000	.0000	27.8026	.0000	INF.	1.374
119	52	.0000	.0000	27.8026	.0000	INF.	1.0691
120							
121							
122	53	.0000	.0000	.0000	.0000	INF.	.0525
123	54	.0000	.0000	.0000	.0000	INF.	.0691
124							
125							
126	55	.0000	.0000	.0000	.0000	INF.	.0000
127	56	.0000	.0000	.0000	.0000	INF.	.0000
128							
129							
130	57	.0000	.0000	.0000	.0000	INF.	.0000
131	58	.0000	.0000	.0000	.0000	INF.	.0000
132	59	.0000	.0000	.0000	.0000	INF.	.0000
133	60	27.6295	.0000	27.6736	.9984	28.67589	.9984
134	61	26.4272	.0000	27.6769	.9548	30.0743	.9548
135	62	4.0266	.0000	27.6725	.1455	197.3204	.1455
136	63	86.7233	.0000	27.4933	3.1543	8.9918	3.1543
137	64	111.6554	.0000	27.4937	4.0611	6.9848	4.0611
138	65	91.3780	.0000	27.4920	3.3238	8.5330	3.3238
139							
140							
141							
142							
143							
144							
145	66	298.2941	.0000	27.1168	11.0003	2.5146	11.0003
146	67	291.3933	.0000	27.1163	10.7480	2.5741	10.7480
147	68	386.4970	.0000	27.1166	14.2531	1.9405	14.2531
148							
149							
150							
151							
152							
153							
154	69	.0000	.0000	26.3664	.0000	INF.	.0000
155	70	.0000	.0000	26.3664	.0000	INF.	.0000
156	71	.0000	.0000	26.3630	.0000	INF.	.0000
157							
158							
159	72	224.1262	.0000	27.6454	8.1871	3.5405	8.1871
160							

Figure 6.2-10. - Continued

161	73	24.5367	.0000	27.6672	.8869	32.3685	.8869	1.1717		
162	74	24.9859	.0000	27.6654	.9031	31.7831	.9031	1.1506		
163	75	25.2299	.0000	27.4558	1.3196	21.4871	1.3196	.6801	.3500	.0002
164	76	12.3623	.0000	27.4610	.4502	62.9889	.4502	1.9886	.3500	.0003
165	77	32.2952	.0000	27.4568	1.1762	24.1067	1.1762	.7630	.3500	.0003
166							.0000	.0000	1.0500	REVERSED
167							4.4735	.0000	1.0500	.0003
168							5.8272	.0000	1.0500	.0002
169							7.3622	.0000	1.0500	.0002
170							.0000	.0000	1.0500	REVERSED
171							.3160	.0000	1.0500	.0002
172	78	199.6885	.0000	27.1139	7.3649	3.7549	7.3649	.0734		
173	79	121.2679	.0000	27.1075	4.4737	6.1817	4.4737	.1224		
174	80	166.7060	.0000	27.1112	6.1489	4.4973	6.1489	.0882		
175	81	.0000	.0000	27.0935	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	27.0563	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	27.0545	.0000	INF.	.0000	.0000	1.6500	.0005
178							.0000	.0000		
179							14.8310	.0011		
180							9.6663	.0010		
181	84	393.2557	.0000	26.9959	14.5672	1.8807	14.5672	.0274	1.3000	.0001
182	85	260.9939	.0000	27.0124	9.6620	2.8365	9.6620	.0407	1.3000	.0001
183	86	140.1081	.0000	27.0094	5.1874	5.2826	5.1874	.0757	1.3000	.0001
184							.0002	.0000	1.3000	.0028
185							3.0386	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							.2615	.0000	1.3000	.0021
188	88	.0000	.0000	27.4064	.0000	INF.	.0000	.0000		
189	89	89.1296	.0000	27.0090	3.3000	8.3020	3.3000	.1174		
190							.0000	.0000	1.3000	REVERSED
191							.0000	.0000	1.3000	.0013
192							.0000	.0000	1.3000	REVERSED
193	87	.0900	.0000	27.4064	.0000	INF.	.0000	.0000		
194							.0000	.0000		
195							.0001	.0217	.3800	.0020
196							.0000	.0410	.3800	.0021
197							.0001	.0217	.3900	.0025
198							.0000	.0410	.3900	.0024
199							.0001	.0217	.3900	.0022
200							.0000	.0410	.3900	.0021
201							.0001	.0217	.3900	.0023
202							.0000	.0410	.3900	.0021
203							.0000	.0000	1.0500	.0053
204							.0000	.1460	1.0500	.0053
205							.0000	.0000	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207							.0000	.1340		
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92	.0900	.0000	.0000	.0000	INF.	.0000	.0000		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212							.0000	.1340		
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

•

218

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	281.36	271.94	288.85
VOLTAGE	29.23	29.44	29.50
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AMPERMAIN			

[illegible]

Figure 6.2-10. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	374.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0938	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 20357.08 AND LOADS 18827.04 18827.39									

Figure 6.2-11.-Circuit solution at 40 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME .66667 TIME STEP .02139 NEXT INPUT TIME .72583													
TOTAL SOURCE POWER 24361.1167 TOTAL DC/AC LOAD 22719.8069 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE	SHUNT

1	1	1	29.28	276.01						276.0117	.0006		
2	1	1	29.48	267.33						267.3347	.0005		
3	1	1	29.54	284.34						284.3387	.0005		
4	1	1			.0000	.0000	29.1285	.0000	INF.	.0000	.0000		
5	1	1			.0000	.0000	29.3567	.0000	INF.	.0000	.0000		
6	1	1			.0000	.0000	29.3945	.0000	INF.	.0000	.0000		
7	1	1								276.0089	.0003		
8	1	1								267.0630	.0002		
9	1	1								284.1198	.0005		
10	1	1								.0000	.0016		
11	1	1								.0000	.0002		
12	1	1								.0000	.0009		
13	4	5			.0000	.0000	29.0534	.0000	INF.	.0000	.0000		
14	5	6			.0000	.0000	29.2972	.0000	INF.	.0000	.0000		
15	6				.0000	.0000	29.2656	.0000	INF.	.0000	.0000		
16										93.2357	.0016		
17										56.1995	.0014		
18										9.3271	.0015		
19	7				.0000	.0000	27.5321	16.7308	1.7365	16.7308	.0909		
20	8				.0000	.0000	27.7875	17.3506	1.6885	17.3506	.0870		
21	9				.0000	.0000	27.7543	34.1078	.8580	34.1078	.0443		
22	10				.0000	.0000	27.5733	3.5064	8.2857	3.5064	.4221		
23	11				.0000	.0000	27.8062	3.4081	8.5984	3.4081	.4375		
24										9.2272	.0317		
25										11.0593	.0312		
26										.0000	.3900		
27										.0000	.3900		
28										9.1010	.0058		
29										20.1601	.0374		
30	12				567.8549	.0000	28.1677	20.1601	1.4346	20.1601	.0374		
31	15				3.5531	.0000	28.2167	.1261	229.7695	.1261	6.0000		
32										15.0182	.0183		
33										22.9745	.0206		
34										18.4990	.0195		
35	16				338.3615	.0000	28.0280	11.9295	2.4124	11.9295	.0629		
36	17				380.1779	.0000	28.0730	13.5424	2.1285	13.5424	.0555		
37	18				250.0078	.0000	28.1549	8.8797	3.2552	8.8797	.0845		
38										3.0887	.0074	.2000	.0009
39										3.6073	.0126	.2000	.0016
40										3.1330	.0091	.2000	.0008
41										8.6250	.0074	.2000	.0009
42										6.4862	.0126	.2000	.0016

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ORIGINAL PAGE 1
OF FOUR QUALITY

Figure 6.2-11. - Continued

[illegible]

Figure 6.2-11. - Continued

[illegible]

Figure 6.2-11. - Continued

161	73	1	24.6946	.0000	27.7619	.8895	32.3820	.8895	1.1717		
162	74	1	25.1454	.0000	27.7596	.9058	31.7962	.9058	1.1506		
163	75	1	36.2239	.0000	27.5563	1.3147	21.6396	1.3147	.6801	.3500	.0002
164	76	1	12.3676	.0000	27.5617	.4487	63.4113	.4487	1.9886	.3500	.0003
165	77	1	32.2952	.0000	27.5573	1.1719	24.2779	1.1719	.7630	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								4.4568	.0000	1.0500	.0003
168								5.8674	.0000	1.0500	.0002
169								7.3469	.0000	1.0500	.0002
170								.0000	.0000	1.0500	REVERSED
171								.2620	.0000	1.0500	.0002
172	78	1	199.9680	.0000	27.2130	7.3482	3.7767	7.3482	.0734		
173	79	1	121.2698	.0000	27.2073	4.4572	6.2264	4.4572	.1224		
174	80	1	166.8811	.0000	27.2098	6.1331	4.5247	6.1331	.0882		
175	81	1	.0000	.0000	27.1507	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.1542	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.1518	.0000	INF.	.0000	.0000	1.6500	.0005
178								10.0705	.0011		
179								8.2397	.0010		
180								6.2133	.0011		
181	84	1	247.3487	.0000	27.0919	9.1300	3.0120	9.1300	.0445	1.3000	.0001
182	85	1	114.8802	.0000	27.1094	4.2376	6.4918	4.2376	.0944	1.3000	.0001
183	86	1	104.0046	.0000	27.1067	3.8369	7.1679	3.8369	.1030	1.3000	.0001
184								.0003	.0000	1.3000	.0028
185								2.3738	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								.9375	.0000	1.3000	.0021
188	88	1	.0000	.0000	27.5098	.0000	INF.	.0000	.0000		
189	89	1	89.7598	.0000	27.1086	3.3111	8.3046	3.3111	.1174		
190								.0000	.0000	1.3000	REVERSED
191								.0000	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	27.5098	.0000	INF.	.0000	.0000		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-11. - Continued

[illegible]

NODE	1	TO	10		.0000	29.1285	29.3567	29.3945	29.0534	29.2972	29.2656		.0000		.0000
NODE	11	TO	20	28.	28.7733	28.3207	28.3507	28.3945	28.0534	28.2972	28.2656	28.	.0000		.0000
NODE	21	TO	30	28.	28.3058	28.3178	28.8245	28.3945	28.3507	28.3568	28.6131	28.	.0000	28.	.0000
NODE	31	TO	40	27.	27.0968	27.9647	27.9082	27.9082	27.9507	28.3568	28.3810	28.	.0000	28.	.0000
NODE	41	TO	50	27.	27.8542	.0000	27.0000	27.0000	28.8101	28.8152	28.8019	28.	.0000	28.	.0000
NODE	51	TO	60	26.	26.4642	26.4642	26.4601	26.8007	28.8042	28.8018	28.7523	28.	.0000	28.	.0000
NODE	61	TO	70	28.	28.8098	28.8022	27.5098	27.5098	27.4973	28.4207	28.4142	28.	.0000	28.	.0000
NODE	71	TO	80	28.	28.4142	.0000	.0000	29.3945	29.3945	29.3945	.0000	28.	.0000	28.	.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	3	2	1
SWITCH CON	1	1	1
CURRENT	276.01	267.33	284.34
VOLTAGE	29.28	29.48	29.54
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
LOC			
AUX EMAN			

CRYOGEN USAGE				
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	H2O PROD (LBS)
O ₂	3124.00	3107.82	16.18	18.22
H ₂	368.00	365.96	2.04	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE PWR. FAC.	INVERTER CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
1	100	0.95	1.0	100	0.95	1.0	95	1.0	100
2	200	0.95	2.0	200	0.95	2.0	95	1.0	200
3	300	0.95	3.0	300	0.95	3.0	95	1.0	300
4	400	0.95	4.0	400	0.95	4.0	95	1.0	400
5	500	0.95	5.0	500	0.95	5.0	95	1.0	500
6	600	0.95	6.0	600	0.95	6.0	95	1.0	600
7	700	0.95	7.0	700	0.95	7.0	95	1.0	700
8	800	0.95	8.0	800	0.95	8.0	95	1.0	800
9	900	0.95	9.0	900	0.95	9.0	95	1.0	900
10	1000	0.95	10.0	1000	0.95	10.0	95	1.0	1000

Figure 6.2-11. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.7665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.8660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	372.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.8667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 22410.47 AND LOADS 20740.98 20741.35									

Figure 6.2-12.- Circuit solution at 45 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME .75000 TIME STEP .00850 NEXT INPUT TIME .75556													
TOTAL SOURCE POWER 22602.7302 TOTAL DC/AC LOAD 21085.1731 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 8													
B-ANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	

1	1	1						256.4111	.0006				
2	2	1						248.0665	.0005				
3	3	1						258.6738	.0005				
4	1	1			29.3118	.0000	INF.	.0000	.0000				
5	2	1			29.5441	.0000	INF.	.0000	.0000				
6	3	1			29.6126	.0000	INF.	.0000	.0000				
7								256.4095	.0003				
8								247.9297	.0002				
9								258.3738	.0005				
10								.0000	.0016				
11								.0000	.0002				
12								.0000	.0009				
13	4	1			29.2420	.0000	INF.	.0000	.0000				
14	5	1			29.4888	.0000	INF.	.0000	.0000				
15	6	1			29.4953	.0000	INF.	.0000	.0000				
16								92.9493	.0016				
17								56.0430	.0014				
18								9.6210	.0015				
19					27.7535	.0000	54.2802	.5387	2.7632				
20					27.9893	.0000	54.3393	.5427	2.7632				
21					27.9955	.0000	30.5919	.9642	1.5556				
22	10	1			27.7535	.0000	3.5265	8.2921	.4221				
23	11	1			27.9893	.0000	3.4274	8.6037	.4375				
24								9.2765	.0317				
25								11.1183	.0312				
26								.0000	.3900				
27								.0000	.3900				
28								9.1492	.0058				
29	12	1			28.3915	.0000	20.2675	1.4382	.0374				
30	15	1			28.4383	.0000	.1272	229.5685	.1272				
31								14.7342	.0183				
32								22.6244	.0206				
33								19.1186	.0195				
34								11.9782	.0629				
35	16	1			28.2187	.0000	11.9782	2.4187	.0555				
36					28.2679	.0000	13.6137	2.1319	.0845				
37	17	1			28.3725	.0000	8.8804	3.2794	.0074				
38	18	1						8.8804	.0074				
39								2.7559	.0074	.2000	.0009		
40								.1225	.0126	.2000	.0016		
41								3.1082	.0091	.2000	.0008		
42								8.8883	.0074	.2000	.0009		
43								7.1299	.0126	.2000	.0016		

Figure 6.2-12. - Continued

45	19	327.2146	.0000	28.1012	11.6441	2.4690	-.0000	.0091	.2000	REVERSED
46	20	204.3286	.0000	28.1746	7.2522	3.9742	11.6441	.0554		
47	21	87.8000	.0000	28.2474	3.1083	9.2951	7.2522	.0892		
48							3.1083	.2073		
49							110.4269	.0057		
50							1123.3008	.0071		
51	22	406.7166	.0000	27.3283	14.8826	1.8991	181.5832	.0048		
52	23	398.9360	.0000	27.4504	14.5968	1.9365	14.8826	.0626	.3500	.0002
53	24	798.1483	.0000	27.4579	29.1439	.9365	139.5968	.0639	.3500	.0002
54	25	2058.1800	.0000	28.4503	72.8296	.9365	139.5968	.0324	.3500	.0002
55	26	1407.6863	.0000	28.4756	49.6091	.5768	72.8296	.0049		
56	27	1954.9503	.0000	28.2825	69.1223	.4140	49.6091	.0049		
57							69.1223	.0049		
58							-.0000	.0000	1.0500	REVERSED
59							1.1209	.0000	1.0500	.0002
60							9.3834	.0000	1.0500	.0005
61							9.2096	.0000	1.0500	.0002
62							10.4935	.0000	1.0500	.0002
63	28	248.3342	.0000	26.9693	9.2080	2.9935	1.8196	.0000	1.0500	.0005
64	29	367.1919	.0000	26.9747	13.6124	2.0250	9.2080	.0646		
65	30	302.1877	.0000	26.9741	11.2029	2.4603	13.6124	.0434		
66							11.2029	.0525		
67							43.8079	.0000	1.0500	.0001
68							20.0563	.0000	1.0500	.0001
69	31	3300.2846	.0000	26.9596	122.4159	.2251	38.5530	.0000	1.0500	.0001
70							122.4159	.0079		
71							2.8384	.0079		
72							4.8447	.0085		
73	32	21.9257	.0000	26.8730	.8159	33.4689	.8159	.017	1.3000	.0005
74	33	78.0872	.0000	26.8570	2.9075	2.3865	2.9075	.1491	1.3000	.0003
75	34	130.0704	.0000	26.8484	4.8446	5.6322	4.8446	.0895	1.3000	.0008
76							.0282	.0000	1.3000	.0005
77							-.0000	.0000	1.3000	REVERSED
78							-.0016	.0000	1.3000	REVERSED
79							.0016	.0000	1.3000	.0005
80							.0279	15.5556		
81	36	.7486	.0000	26.8578	.0279	979.0966	.0000	.0000		
82	37	.0000	.0000	27.3072	.0000	INF.	.0000	.0000		
83							-.0000	.2526	1.4000	REVERSED
84							-.0000	.1970	1.0500	REVERSED
85							-.0000	.1955	1.0500	REVERSED
86							.9190	.1955	1.0500	.0026
87							1.1776	.2058	1.4000	.0024
88							1.3076	.1499	1.0500	.0026
89							1.8201	.1372	1.0500	.0026
90							1.8201	.0894	1.0500	.0026
91							3.2827	.2221	1.4000	.0024

Figure 6.2-12. - Continued

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Figure 6.2-12. - Continued

161	73	24.9875	.0000	27.9329	.8944	32.4085	.8944	1.1717		
162	74	25.4439	.0000	27.9358	.9108	31.8222	.9108	1.1506		
163	75	26.2299	.0000	27.7442	1.3059	21.9263	1.3059	.6801	.3500	.0002
164	76	12.3776	.0000	27.7488	.4461	64.1978	.4461	1.9886	.3500	.0003
165	77	32.2952	.0000	27.7452	1.1640	24.5996	1.1640	.7630	.3500	.0003
166								.0000	1.0500	REVERSED
167								4.4265	.0000	.0003
168								6.0995	.0000	.0002
169								7.3164	.0000	.0002
170								.0000	.0000	REVERSED
171								.0000	1.0500	.0002
172	78	200.4862	.0000	27.3970	7.3178	3.8173	7.3178	.0000	1.0500	.0002
173	79	121.2733	.0000	27.3928	4.4272	6.3097	4.4272	.0734		
174	80	167.2087	.0000	27.3943	6.1038	4.5763	4.5763	.1224		
175	81	.0000	.0000	27.3325	.0000	INF.	.0000	.0882		
176	82	.0000	.0000	27.3359	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	27.3337	.0000	INF.	.0000	.0000	1.6500	.0005
178								.0000	1.6500	.0005
179								12.0786	.0011	
180								5.3933	.0010	
181	84	311.0375	.0000	27.2752	11.4037	2.4272	11.4037	7.6623	.0011	
182	85	147.1081	.0000	27.2917	5.3902	5.1371	5.3902	.0353	1.3000	.0001
183	86	136.4108	.0000	27.2872	4.9991	5.5376	4.9991	.0738	1.3000	.0001
184								.0790	1.3000	.0001
185								.0002	1.3000	.0020
186								2.6597	.0000	.0021
187								.0000	1.3000	REVERSED
188	88	.0000	.0000	27.6903	.0000	INF.	.0000	.6710	1.3000	.0021
189	89	90.8834	.0000	27.2862	3.3307	8.3096	.0000	.0000		
190								3.3307	.1174	
191								.0000	1.3000	REVERSED
192								.0001	.0000	.0013
193	87	.0000	.0000	27.6903	.0000	INF.	.0000	.0000	1.3000	REVERSED
194								.0000	.0000	
195								.0001	.0217	.3800
196								.0000	.0410	.3800
197								.0001	.0217	.3900
198								.0000	.0410	.3900
199								.0001	.0217	.3900
200								.0000	.0410	.3900
201								.0001	.0217	.3900
202								.0000	.0410	.3900
203								.0000	.0000	1.0500
204								.0000	.1460	1.0500
205								.0000	.0000	1.0500
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207								.0000	.1340	
208								.0000	.1310	.2000
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1340	
213								.0000	.1310	.2000
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

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Figure 6.2-12. - Continued

[illegible]

NODE	1	TO	10	29.0000	29.3118	29.5441	29.6126	29.2420	29.4888	29.4953	28.0000	28.0000	28.0000
NODE	11	TO	20	29.2015	29.4866	28.9723	29.0233	28.1225	28.7493	28.6216	28.6917	28.6137	28.6163
NODE	21	TO	30	29.5180	27.5644	27.3656	27.5627	27.5615	28.6073	28.5914	28.5857	28.5857	28.5857
NODE	31	TO	40	28.3072	28.1767	28.1137	28.1080	29.0913	29.9305	29.9341	28.3506	28.4306	28.4302
NODE	41	TO	50	28.0433	28.0000	28.0000	28.0000	29.9859	29.9859	29.9859	28.9337	28.9337	28.9337
NODE	51	TO	60	26.6459	26.6459	26.6417	28.9825	28.9825	28.9837	28.9837	28.9337	28.9337	28.9337
NODE	61	TO	70	28.9903	28.9827	27.6903	27.6903	27.6772	28.6025	28.6025	28.5959	28.5959	28.5959
NODE	71	TO	80	28.5959	28.0000	28.0000	29.6126	29.6126	28.6126	28.0000	28.0000	28.0000	28.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	258.41	248.07	258.67
VOLTAGE	29.45	29.66	29.74
PARASITIC	.0000	.0000	.0000
WSP	180.0000	180.0000	180.0000
SOC			
AM REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	3106.40	17.60	19.82
H2	368.00	365.78	2.22	

[illegible]

Figure 6.2-12. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	372.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0914	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 24397.43 AND LOADS 22594.18 22594.56									

Figure 6.2-13.- Circuit solution at 47 minutes 21 seconds MET (OMS-2)

DC DISTRIBUTION NETWORK STATUS												
MISSION ELAPSED TIME			.78917 TIME STEP			.02528 NEXT INPUT TIME			.78925			
TOTAL SOURCE POWER 22609.1184			TOTAL DC/AC LOAD 22159.1382			REFERENCE NODE 1			ACCURACY .0010 SOLUTIONS ATTEMPTED 6			
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT
1	1	1	29.46	255.33						255.3299	.0006	
2	1	1	29.67	246.52						246.5193	.0005	
3	1	1	29.72	261.49						261.4932	.0005	
4	1	1			.0000	.0000	29.3219	.0000	INF.	.0000	.0000	
5	1	1			.0000	.0000	29.5600	.0000	INF.	.0000	.0000	
6	1	1			.0000	.0000	29.5836	.0000	INF.	.0000	.0000	
7	1	1								.0000	.0002	
8	1	1								.0000	.0005	
9	1	1								.0000	.0016	
10	1	1								.0000	.0002	
11	1	1								.0000	.0009	
12	1	1			.0000	.0000	29.2708	.0000	INF.	.0000	.0000	
13	1	1			.0000	.0000	28.0113	.4070	72.5115	.4070	3.6842	
14	1	1			.0000	.0000	29.5363	.0000	INF.	.0000	.0000	
15	1	1								92.5586	.0016	
16	1	1								56.9286	.0014	
17	1	1								10.6086	.0015	
18	1	1								.5392	2.7632	
19	1	1			.0000	.0000	27.7810	.5392	54.2868	.5431	2.7632	
20	1	1			.0000	.0000	28.0101	.5431	54.3395	.9656	1.5556	
21	1	1			.0000	.0000	28.0343	.9656	30.5876	3.8447	.3879	
22	1	1			.0000	.0000	27.7796	3.8447	7.6133	3.7437	.4008	
23	1	1			.0000	.0000	28.0101	3.7437	7.6828	9.4173	.0317	
24	1	1								11.2417	.0312	
25	1	1								.0000	.3900	
26	1	1								.0000	.3900	
27	1	1								9.0430	.0058	
28	1	1								20.2849	.0374	
29	1	1			576.6627	.0000	28.4281	20.2849	1.4388	.3740	1.9952	
30	1	1			10.6567	.0000	28.4918	.3740	78.1709	13.3139	.0183	
31	1	1								20.7415	.0206	
32	1	1								17.5348	.0195	
33	1	1								10.9178	.0691	
34	1	1								11.5134	.0657	
35	1	1			308.6806	.0000	28.2731	10.9178	2.6587	7.1959	.1038	
36	1	1			426.1517	.0000	28.3279	11.5134	2.5261	2.3963	.0074	.2000
37	1	1			204.7049	.0000	28.4475	7.1959	4.0571	.0000	.0126	.2000 REVERSED
38	1	1								3.1002	.0091	.2000
39	1	1								9.2282	.0074	.2000
40	1	1								7.2386	.0126	.2000
41	1	1										.0009
42	1	1										.0008
43	1	1										.0009
44	1	1										.0016

Figure 6.2-13. - Continued

44	19	327.3396	.0000	28.1601	11.6242	2.4782	-.0000	.0091	.2000	REVERSED
45	20	204.4635	.0000	28.2462	7.2386	3.9914	11.6242	.0557		
46	21	87.8000	.0000	28.3211	3.1002	9.3426	7.2386	.0892		
47							3.1002	.2073		
48							110.3518	.0057		
49							122.2874	.0071		
50	22	416.7367	.0000	27.3581	15.2327	1.8574	183.9748	.0048		
51	23	455.9644	.0000	27.3618	16.6642	1.6980	15.2327	.0612	.3500	.0002
52	24	796.2617	.0000	27.3480	29.1159	.9719	16.6642	.0558	.3500	.0002
53	25	2058.1800	.0000	28.2899	72.7531	.4937	29.1159	.0324	.3500	.0002
54	26	1397.2288	.0000	28.4067	49.1866	.5824	72.7531	.0049		
55	27	1944.4928	.0000	28.3141	68.6757	.4171	49.1866	.0049		
56							68.6757	.0049		
57							-.0000	.0000	1.0500	REVERSED
58							2.2366	.0000	1.0500	.0002
59							9.5741	.0000	1.0500	.0005
60							9.1993	.0000	1.0500	.0002
61							11.3680	.0000	1.0500	.0002
62							1.6246	.0000	1.0500	.0005
63	28	248.4192	.0000	26.9988	9.2011	2.9989	9.2011	.0646		
64	29	367.3913	.0000	27.0043	13.6049	2.0283	13.6049	.0434		
65	30	302.3872	.0000	27.0037	11.1980	2.4640	11.1980	.0525		
66							42.0718	.0000	1.0500	.0001
67							19.8642	.0000	1.0500	.0001
68							60.3347	.0000	1.0500	.0001
69	31	3300.3598	.0000	26.9895	122.2829	.2256	122.2829	.0049		
70							.8698	.0079		
71							2.9035	.0085		
72							4.8851	.0067		
73	32	23.3637	.0000	26.9014	.8685	31.4752	.8685	.5000	1.3000	.0005
74	33	77.2409	.0000	26.8859	2.8729	9.5098	2.8729	.1511	1.3000	.0003
75	34	131.2966	.0000	26.8771	4.8851	5.5915	4.8851	.0888	1.3000	.0008
76							.0257	.0000	1.3000	.0005
77							-.0000	.0000	1.3000	REVERSED
78							-.0000	.0000	1.3000	REVERSED
79							-.0016	.0000	1.3000	.0005
80							.0279	15.5556		
81	36	.7502	.0000	26.8867	.0279	979.1729	.0000	.0000		
82	37	.0000	.0000	27.3360	.0000	INF.	.0000	.0000		
83							-.0000	.2526	1.4000	REVERSED
84							-.0000	.1970	1.0500	REVERSED
85							-.0000	.1955	1.0500	REVERSED
86							.8828	.1900	1.0500	.0026
87							.0598	.2058	1.4000	.0024
88							1.4259	.1499	1.0500	.0026
89							1.8790	.1372	1.0500	.0026
90							3.5165	.0894	1.0500	.0026
91							.1247	.2221	1.4000	.0024
92	38	4.8310	.0000	24.3038	.1988	122.2889	.1988	.0212	3.9000	.0002
93	39	4.8053	.0000	24.2934	.1982	122.3312	.1982	.0212	3.9000	.0002
94	40	4.7330	.0000	24.2500	.1952	124.3008	.1952	.0538	3.9000	.0006
95	41	70.7047	.0000	27.5882	2.5630	11.0057	2.5630	.2426		
96	42	92.9871	.0000	27.5268	3.3781	8.3325	3.3781	.1838		
97	43	37.3245	.0000	27.5397	1.3553	20.7782	1.3553	.4582		
98							34.7209	.0073		
99							41.8089	.0117		
100							27.5801	.0189	1.0500	.0003
101							24.8712	.0000		

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Figure 6.2-13. - Continued

161	73	1	66.6985	.0000	27.9582	2.3856	12.1595	2.3856	.4401		
162	74	1	34.2197	.0000	27.9585	1.2239	23.6998	1.2239	.8568		
163	75	1	24.8150	.0000	27.7694	.8936	32.0627	.8936	.9929	.3500	.0002
164	76	1	81.7839	.0000	27.7821	2.9438	9.7352	2.9438	.2974	.3500	.0003
165	77	1	95.0361	.0000	27.7791	3.4211	6.3765	3.4211	.2563	.3500	.0003
166		1						.9649	.0000	1.0500	.0002
167		1						3.5860	.0000	1.0500	.0003
168		1						4.0240	.0000	1.0500	.0002
169		1						6.3446	.0000	1.0500	.0002
170		1						.7346	.0000	1.0500	.0003
171		1						2.0715	.0000	1.0500	.0002
172	78	1	200.5504	.0000	27.4197	7.3141	3.8223	7.3141	.0734		
173	79	1	121.2738	.0000	27.4157	4.4235	6.3201	4.4235	.1224		
174	80	1	167.2518	.0000	27.4185	6.0999	4.5831	6.0999	.0882		
175	81	1	.0000	.0000	27.3388	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.3582	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.3572	.0000	INF.	.0000	.0000	1.6500	.0005
178		1						10.4527	.0011		
179		1						4.7594	.0010		
180		1						6.9769	.0011		
181	84	1	256.7517	.0000	27.2997	9.4049	2.9459	9.4049	.0430	1.3000	.0001
182	85	1	129.9537	.0000	27.3147	4.7576	5.8254	4.7576	.0840	1.3000	.0001
183	86	1	127.9541	.0000	27.3101	4.5852	5.9140	4.5852	.0848	1.3000	.0001
184		1						.0002	.0000	1.3000	.0020
185		1						2.2883	.0000	1.3000	.0021
186		1						.0000	.0000	1.3000	REVERSED
187		1						1.0457	.0000	1.3000	.0021
188	88	1	.0000	.0000	27.7150	.0000	INF.	.0000	.0000		
189	89	1	91.0473	.0000	27.3121	3.3336	8.3104	3.3336	.1174		
190		1						.0000	.0000	1.3000	REVERSED
191		1						.0000	.0000	1.3000	.0013
192		1						.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	27.7150	.0000	INF.	.0000	.0000		
194		1						.0000	.0000		
195		0						.0001	.0217	.3800	.0020
196		0						.0000	.0410	.3800	.0021
197		0						.0000	.0217	.3900	.0025
198		0						.0000	.0410	.3900	.0024
199		0						.0001	.0217	.3900	.0022
200		0						.0000	.0410	.3900	.0021
201		0						.0001	.0217	.3900	.0023
202		0						.0000	.0410	.3900	.0021
203		0						.0000	.0000	1.0500	.0053
204		0						.0000	.1460	1.0500	.0053
205		0						.0000	.0000	1.0500	.0053
206	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207		0						.0000	.1310	.2000	.0023
208		0						.0000	.1310	.2000	.0023
209		0						.0000	.0000		
210	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023
213		0						.0000	.1310	.2000	.0023
214	94	0	.0050	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0050	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0050	.0000	.0000	.0000	INF.	.0000	.1370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-13. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7425
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	372.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0793	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7123	559.3900
3B	483.5333	-.7181	5.8555	499.0938	-.9488	4.3996	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES			25311.18 AND LOADS		23445.67	23446.06			

Figure 6.2-14.- Circuit solution at 52 minutes MET

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DC DISTRIBUTION NETWORK STATUS												

MISSION ELAPSED TIME			.86667 TIME STEP			.06889 NEXT INPUT TIME			.91667			
TOTAL SOURCE POWER 22381.9307			TOTAL DC/AC LOAD 20953.5811			REFERENCE NODE 1			ACCURACY .0010 SOLUTIONS ATTEMPTED 7			
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT		

1	1	1						252.3403	.0006			
2	2	1						243.9954	.0005			
3	3	1						258.7124	.0005			
4	1	1		.0000	.0000	29.3499	.0000	INF.	.0000	.0000		
5	2	1		.0000	.0000	29.5859	.0000	INF.	.0000	.0000		
6	3	1		.0000	.0000	29.6122	.0000	INF.	.0000	.0000		
7								.0000	.0003			
8								.0000	.0002			
9								.0000	.0005			
10								.0000	.0016			
11								.0000	.0002			
12								.0000	.0009			
13				.0000	.0000	29.2994	.0000	INF.	.0000	.0000		
14	4	1		11.4000	.0000	28.0392	.4066	72.6489	.4066	3.6842		
15	5	1		.0000	.0000	29.5805	.0000	INF.	.0000	.0000		
16								92.5158	.0016			
17								56.9483	.0014			
18								10.6010	.0015			
19	7	1		15.0067	.0000	27.8083	.5396	54.2935	.5396	2.7632		
20	8	1		15.2407	.0000	28.0350	.5436	54.3330	.5436	2.7632		
21	9	1		27.1179	.0000	28.0570	.9665	30.5843	.9665	1.5556		
22	10	1		106.9893	.0000	27.8071	3.8476	7.6151	3.8476	.3879		
23	11	1		105.0485	.0000	28.0352	3.7470	7.8828	3.7470	.4008		
24								9.4224	.0317			
25								11.2478	.0312			
26								.0000	.3900			
27								.0000	.3900			
28								9.0483	.0058			
29	12	1		577.4590	.0000	28.4517	20.2961	1.4392	20.2961	.0374		
30	15	1		10.6632	.0000	28.5160	.3739	78.2540	.3739	1.9952		
31								13.3543	.0183			
32								20.7048	.0206			
33								17.5258	.0195			
34								10.9236	.0691			
35				309.1426	.0000	28.3005	10.9236	2.6598	11.5207	.0657		
36	16	1		326.6689	.0000	28.3545	11.5209	2.5268	7.1944	.1038		
37	17	1		204.8377	.0000	28.4720	7.1944	4.0614	2.4308	.0074	.2000	.0009
38	18	1						.0000	.0126	.2000	REVERSED	
39								3.0974	.0091	.2000	.0008	
40								9.1840	.0074	.2000	.0009	
41								7.2339	.0126	.2000	.0016	
42												
43												

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Figure 6.2-14. - Continued

Line	Code	Amount	Rate	Balance	Debit	Credit	Balance	Debit	Credit	Balance	Debit	Credit
44	19	327.3990	.0000	28.1882	11.6147	2.4826	11.6147	.0000	.0091	.2000	REVERSED	
45	21	204.5103	.0000	28.2710	7.2339	3.9773	7.2339	.0000	.0551			
46	21	87.8000	.0000	28.3460	3.0974	9.3587	3.0974	.0000	.0892			
47									.2073			
48									.0057			
49									.0071			
50									.0048			
51	22	417.1888	.0000	27.3900	15.2314	1.8596	15.2314	.0000	.0612	.3500	.0002	
52	23	385.4478	.0000	27.3912	14.0719	2.0130	14.0719	.0000	.0663	.3500	.0002	
53	24	796.5863	.0000	27.3806	29.0931	.9737	29.0931	.0000	.0324	.3500	.0002	
54	25	2058.1800	.0000	28.3221	72.6702	.3946	72.6702	.0000	.0049			
55	26	1397.2288	.0000	28.4390	49.1306	.5837	49.1306	.0000	.0049			
56	27	1944.4928	.0000	28.3463	68.5976	.4181	68.5976	.0000	.0049			
57									.0000	1.0500	REVERSED	
58									.0000	1.0500	.0002	
59									.0000	1.0500	.0005	
60									.0000	1.0500	.0002	
61									.0000	1.0500	.0002	
62									.0000	1.0500	.0005	
63	28	248.5129	.0000	27.0314	9.1935	3.0049	9.1935	.0000	.0646			
64	29	367.6091	.0000	27.0366	13.5967	2.0319	13.5967	.0000	.0434			
65	30	302.6038	.0000	27.0358	11.1927	2.4680	11.1927	.0000	.0525	1.0500	.0001	
66									.0000	1.0500	.0001	
67									.0000	1.0500	.0001	
68									.0000	1.0500	.0001	
69	31	3300.4419	.0000	27.0221	122.1381	.2262	122.1381	.0000	.0049			
70									.0079			
71									.0085			
72									.0067			
73	32	23.4162	.0000	26.9327	.8694	31.4780	.8694	.0000	.5000	1.3000	.0005	
74	33	77.4156	.0000	26.9175	2.8760	9.3106	2.8760	.0000	.1511	1.3000	.0003	
75	34	131.5915	.0000	26.9084	4.8903	5.5920	4.8903	.0000	.0888	1.3000	.0008	
76									.0000	1.3000	.0005	
77									.0000	1.3000	.0005	
78									.0000	1.3000	REVERSED	
79									.0000	1.3000	REVERSED	
80					</							

Figure 6.2-14. - Continued

[illegible]

Figure 6.2-14. - Continued

161	73	66.8180	.0000	28.0062	2.3858	12.1787	2.3858	.4401		
162	74	34.3274	.0000	28.0051	1.2258	23.7040	1.2258	.8568		
163	75	24.8140	.0000	27.8187	.8920	32.1791	.8920	.9929	.3500	.0002
164	76	8.8555	.0000	27.8215	.3183	90.1868	.3183	2.7795	.3500	.0003
165	77	22.1200	.0000	27.8193	.7951	36.1015	.7951	1.1139	.3500	.0002
166					.2945		.2945	.0000	1.0500	.0003
167					3.6484		3.6484	.0000	1.0500	.0002
168					4.9614		4.9614	.0000	1.0500	.0002
169					7.0112		7.0112	.0000	1.0500	.0003
170					.7671		.7671	.0000	1.0500	.0002
171					1.1279		1.1279	.0000		
172	78	200.6870	.0000	27.4682	7.3061	3.8330	7.3061	.0734		
173	79	121.2747	.0000	27.4648	4.4156	6.3422	4.4156	.1224		
174	80	167.3381	.0000	27.4671	6.0923	4.5967	6.0923	.0882		
175	81	.0000	.0000	27.4046	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	27.4062	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	27.4053	.0000	INF.	.0000	.0000	1.6500	.0005
178							10.3849	.0011		
179							4.7601	.0010		
180							7.0439	.0011		
181	84	256.9795	.0000	27.3463	9.3972	2.9532	9.3972	.0430	1.3000	.0001
182	85	130.1826	.0000	27.3613	4.7579	5.8348	4.7579	.0840	1.3000	.0001
183	86	128.2289	.0000	27.3564	4.6873	5.9212	4.6873	.0848	1.3000	.0001
184							.0002	.0000	1.3000	.0020
185							2.3535	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							.9853	.0000	1.3000	.0021
188	88	.0000	.0000	27.7615	.0000	INF.	.0000	.0000		
189	89	91.3369	.0000	27.3578	3.3386	8.3118	3.3386	.1174	1.3000	REVERSED
190							.0000	.0000	1.3000	.0011
191							.0000	.0000	1.3000	REVERSED
192							.0000	.0000		
193	87	.0000	.0000	27.7615	.0000	INF.	.0000	.0000		
194							.0001	.0217	.3800	.0020
195							.0000	.0410	.3800	.0021
196							.0001	.0217	.3900	.0025
197							.0000	.0410	.3900	.0024
198							.0001	.0217	.3900	.0022
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0023
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207							.0000	.1310	.2000	.0023
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
212							.0000	.1310	.2000	.0023
213							.0000	.0000		
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-14. - Continued

218		0					.0000	.0070		
219		0					.0000	.0062		
220	58	0	45.9124	.0000	.0000	.0000	2.1778	.0000		
221		0						.0000	.0000	
222		0						.0000	.0000	
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
225		0						.0000	.0007	
226		0						.0000	.0002	
227		0						.0226	.0002	
228		0						.0010	.0002	
229		0						.0000	.0002	
230	101	0	.0000	.0000	29.6122	.0000	INF.	.0000	.0022	
231		0						252.3422	.0002	
232		0						243.9260	.0002	
233		0						258.5483	.0002	
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.0007
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.0008
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.0007
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.0008
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	

NODE	1	10	10	29.0000	29.3499	29.5859	29.6122	29.2994	29.5371	29.5605	28.0000	28.0000	28.0000
NODE	11	20	20	29.6621	29.0098	29.0849	29.1111	29.2189	29.3218	29.3819	28.0000	28.0000	28.0000
NODE	21	30	30	28.6792	27.6255	27.5268	27.5239	27.5237	28.6839	28.7839	28.0000	28.0000	28.0000
NODE	31	40	40	27.3679	28.2330	28.1721	28.1858	29.1514	29.4545	29.5845	28.0000	28.0000	28.0000
NODE	41	50	50	28.1014	28.0000	28.0000	28.0000	29.0631	29.0665	29.0665	28.0000	28.0000	28.0000
NODE	51	60	60	26.7165	26.7165	26.7131	29.0546	29.0562	29.0553	29.0645	28.0000	28.0000	28.0000
NODE	61	70	70	29.0615	29.0547	27.7615	27.7615	29.7498	29.6746	29.6746	28.6662	28.6662	28.6662
NODE	71	80	80	28.6662	28.0000	28.0000	29.6122	29.6122	29.6122	29.6122	28.0000	28.0000	28.0000

	FUEL CELL	FUEL CELL	FUEL CELL
	1	2	3
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	252.34	244.00	258.71
VOLTAGE	29.49	29.70	29.74
CAPACITIC	0.00	0.000	0.000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	3104.52	19.48	21.94
N2	368.00	365.55	2.45	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE INVERTER PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-14. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7682	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	372.6000	-.7499	4.3208	372.9546	.9990	3.2431	.7650	.7506	487.0588
2C	357.0000	-.7237	4.2895	357.0293	.9799	3.1046	.7650	.7220	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7125	552.3200
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3198	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 27045.88 AND LOADS 25069.63 25066.48									

Figure 6.2-15.- Circuit solution at 4 hours MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME				4.0000 TIME STEP		.11083 NEXT INPUT TIME				4.08333			
TOTAL SOURCE POWER 17007.7751				TOTAL DC/AC LOAD 16051.3726		REFERENCE NODE 1 ACCURACY				.0010 SOLUTIONS ATTEMPTED 7			
BRANCH NO	RN	SV	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

1	1	1	30.22	178.54						178.5392	.0006		
2	2	1	30.26	187.28						187.2796	.0005		
3	3	1	30.29	196.27						196.2702	.0005		
4	1	1			.0000	.0000	30.1230	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	30.1756	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	30.1901	.0000	INF.	.0000	.0000		
7										.0000	.0003		
8										.0000	.0002		
9										.0000	.0002		
10										.0000	.0016		
11										.0000	.0002		
12										.0000	.0009		
13	4				10.3198	.0000	28.5541	.3614	83.2493	.3614	4.2424		
14	5				14.8657	.0000	28.6559	.5188	58.0961	.5188	2.8571		
15	6				12.0928	.0000	28.6141	.4226	71.3432	.4226	3.6364		
16										17.9176	.0016		
17										50.5492	.0014		
18										7.2298	.0015		
19	7				15.8445	.0000	28.5541	.5549	54.2216	.5549	2.7632		
20	8				15.9003	.0000	28.6020	.5559	54.2134	.5559	2.7632		
21	9				28.2689	.0000	28.6141	.9879	30.5190	.9879	1.5556		
22	10				12.5225	.0000	28.5899	.4380	68.6921	.4380	3.4188		
23	11				8.8738	.0000	28.6978	.3096	97.3327	.3096	4.7809		
24										6.5252	.0317		
25										7.7685	.0312		
26										.0000	.3900		
27										.0000	.3900		
28										6.1535	.0058		
29	12				405.7570	.0000	29.1449	13.9220	2.1483	13.9220	.0549		
30	15				10.8473	.0000	29.2031	.3714	80.6162	.3714	1.9952		
31										8.8968	.0183		
32										9.7551	.0206		
33										9.6541	.0195		
34										2.2416	.3496		
35	16				65.3222	.0000	29.1409	2.2416	13.3496	3.3792	.2288		
36	17				98.5516	.0000	29.1643	3.3792	8.8594	1.9241	.4056		
37	18				56.1502	.0000	29.1824	1.9241	15.5722	.1278	.0074	.2000	.0009
38										5.8173	.0091	.2000	.0008
39										6.2480	.0074	.2000	.0009
40										1.9128	.0126	.2000	.0016
41													
42													
43													

Figure 6.2-15. - Continued

[illegible]

Figure 6.2-15. - Continued

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Figure 6.2-15. - Continued

161	73	1	390.3479	.0000	28.7680	13.5688	2.1959	13.5688	.0757		
162	74	1	36.2125	.0000	28.7229	1.2607	23.6392	1.2607	.8568		
163	75	1	24.8120	.0000	28.5798	.8683	33.9089	.8683	.9929	.3500	.0002
164	76	1	7.6650	.0000	28.5835	.2682	109.8057	.2682	3.2146	.3500	.0003
165	77	1	22.1260	.0000	28.5911	.7737	38.0695	.7737	1.1139	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								.0000	.0000	1.0500	REVERSED
168								2.0439	.0000	1.0500	.0002
169								2.5557	.0000	1.0500	.0002
170								1.3191	.0000	1.0500	.0003
171								.0000	.0000	1.0500	REVERSED
172	78	1	72.1480	.0000	28.2179	2.5568	11.2425	2.5568	.2062		
173	79	1	37.2897	.0000	28.2269	1.3211	21.7647	1.3211	.3980		
174	80	1	57.7536	.0000	28.2254	2.0462	14.0521	2.0462	.2577		
175	81	1	.0000	.0000	28.1421	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	28.1456	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	28.1531	.0000	INF.	.0000	.0000	1.6500	.0005
178								6.5519	.0011		
179								4.2957	.0010		
180								4.9451	.0011		
181	84	1	176.5323	.0000	28.1024	6.2818	4.5374	6.2818	.0637	1.3000	.0001
182	85	1	120.6686	.0000	28.1027	4.2938	6.6183	4.2938	.0933	1.3000	.0001
183	86	1	134.9883	.0000	28.1013	4.8036	5.9336	4.8036	.0834	1.3000	.0001
184								.0003	.0000	1.3000	.0028
185								.1400	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								.2673	.0000	1.3000	.0021
188	88	1	.0000	.0000	28.5037	.0000	INF.	.0000	.0000		
189	89	1	11.4425	.0000	28.1007	.4072	69.9965	.4072	.9863		
190								.0000	.0000	1.3000	REVERSED
191								.0003	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	28.5037	.0000	INF.	.0000	.0000		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
212								.0000	.1310	.2000	.0023
213								.0000	.0000		
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-15. - Continued

218	0							.0000	.0070
219	0							.0000	.0062
220	98	0	45.9184	.0000	.0000	.0000	2.1778	.0000	.0000
221	0	0						.0000	.0000
222	0	0						.0000	.0000
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000
225	0	0						.0000	.0007
226	0	0						.0000	.0002
227	0	0						.0179	.0004
228	0	0						.0010	.0002
229	0	0						.0010	.0002
230	101	0	.0000	.0000	30.1901	.0000	INF.	.0000	.0022
231	0	0						178.5386	.0002
232	0	0						187.2790	.0002
233	0	0						196.2197	.0002
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000

NODE 1 TO 10	.0000	30.1230	30.1756	30.1901	30.0873	30.1381	30.1509	.0000	.0000	.0000
NODE 11 TO 20	29.9442	29.9087	29.9244	29.9374	29.9627	29.6854	29.7356	29.7049	29.4475	29.4483
NODE 21 TO 30	29.4480	28.3970	28.3968	28.3954	28.3937	29.4404	29.4272	29.4194	.0000	28.1272
NODE 31 TO 40	28.1404	28.9017	28.8899	28.8751	30.0587	30.0648	30.1403	29.0083	29.0897	29.0903
NODE 41 TO 50	29.0087	.0000	.0000	.0000	29.8100	29.8082	29.8081	28.7576	28.7568	28.7573
NODE 51 TO 60	27.4600	27.4582	27.4600	29.7921	29.7956	29.8031	28.7450	28.7527	28.7527	29.8029
NODE 61 TO 70	29.8037	29.8028	28.5037	28.5037	28.5023	29.4121	.0000	29.4056	29.4021	.0000
NODE 71 TO 80	29.4056	.0000	.0000	30.1901	30.1901	30.1901	.0000	.0000	.0000	.0000

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	178.58	187.28	176.27
VOLTAGE	30.22	30.26	30.29
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE
 LOADED REMAINING CONSUMED H2O PROD
 (LBS) (LBS) (LBS) (LBS)

O2	3124.00	3058.78	65.22	73.46
H2	368.00	359.79	8.21	

*****INVERTER STATUS*****									
*****L.C. BUS*****					*****SINGLE PHASE INVERTER*****				
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-15. - Concluded

1A	452.7500	-.6872	5.7288	472.0463	-.9591	4.1048	.7650	.7165	591.8301
1B	459.1900	-.6896	5.7899	479.2391	-.9582	4.1673	.7650	.7198	600.2484
1C	319.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	.6243	417.2549
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650									
2A	295.7200	-.7136	3.6036	300.7306	.9833	2.6150	.7650	.7257	386.5621
2B	319.6350	-.7256	3.8303	322.3711	.9915	2.8032	.7650	.7319	417.8235
2C	197.0000	-.6325	2.7085	222.6408	.8848	1.9360	.7650	.7148	257.5163
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	627.6000	-.8189	6.6645	634.7334	-.9888	5.5194	.7644	.8282	821.0263
3B	461.1260	-.7115	5.6357	474.1603	-.9725	4.1231	.7650	.7316	602.7491
3C	614.8000	-.8192	6.5263	620.7128	-.9905	5.3975	.7650	.8270	803.6799
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7648									
ACCUMULATED WATT-HRS OF SOURCES 91874.08 AND LOADS 85920.53 85779.66									

Figure 6.2-J6.- Circuit solution at 6 hours MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 6.00000 TIME STEP .16667 NEXT INPUT TIME 6.20583													
TOTAL SOURCE POWER 18956.8030 TOTAL DC/AC LOAD 17883.9736 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	SHUNT RESISTANCE

1	1	1	30.00	198.92						198.9206	.0006		
2	2	1	30.05	208.10						208.0968	.0005		
3	3	1	30.04	224.24						224.2394	.0005		
4	1	1			.0000	.0000	29.8917	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	29.9543	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	29.9257	.0000	INF.	.0000	.0000		
7	0	0								.0000	.0003		
8	0	0								.0000	.0002		
9	0	0								.0000	.0005		
10	0	0								.0000	.0016		
11	0	0								.0000	.0002		
12	0	0								.0000	.0009		
13	4	1			10.1514	.0000	28.3318	.3583	83.3144	.3583	4.2424		
14	5	1			14.8072	.0000	28.4243	.5209	57.4215	.5209	2.8571		
15	6	1			11.8675	.0000	28.3591	.4185	71.4050	.4185	3.6364		
16										15.7671	.0016		
17										48.6178	.0014		
18										6.9231	.0015		
19	7	1			566.3264	.0000	28.3679	19.9635	1.4953	19.9635	.0743		
20	8	1			590.1558	.0000	28.4316	20.7570	1.4411	20.7570	.0714		
21	9	1			1159.8686	.0000	28.3984	40.8426	.7316	40.8426	.0363		
22	10	1			109.8492	.0000	28.3341	3.8769	7.6999	3.8769	.3915		
23	11	1			44.8991	.0000	28.3960	1.5812	18.9180	1.5812	.9592		
24										7.3894	.0317		
25										8.4994	.0312		
26										.0000	.3900		
27										.0000	.3900		
28										5.3613	.0058		
29	12	1			399.9536	.0000	28.8555	13.8606	2.1367	13.8606	.0549		
30	15	1			58.5669	.0000	28.8770	2.0281	14.6177	2.0281	.3796		
31										9.2612	.0183		
32										10.4201	.0206		
33										8.7274	.0195		
34										2.2224	.0496		
35	16	1			64.2400	.0000	28.9054	2.2224	13.3559	2.2224	.2288		
36										3.3595	.4056		
37	17	1			97.1900	.0000	28.9297	3.3595	8.8401	3.3595	.0074	.2000	.0009
38	18	1			55.2417	.0000	28.9365	1.9091	15.5630	1.9091	.0126	.2000	.0016
39										4.5488	.0074	.2000	.0008
40										.5905	.0074	.2000	.0009
41										5.3502	.0126	.2000	.0016
42										6.4701	.0126	.2000	.0016
43										1.4678	.0126	.2000	.0016

Figure 6.2-16. - Continued

44			317.4609	.0000	28.8106	11.0188	2.6722	2.4899	.0091	.2000	.0008
45	19	1	59.4000	.0000	28.8593	2.0583	14.3276	11.0188	.0575		
46	20	1						2.0583	.3064		
47	21	1	225.9772	.0000	28.8231	7.8401	3.7573	7.8401	.0809		
48		1						109.3101	.0057		
49		1						96.3562	.0071		
50		1						138.4515	.0048		
51	22	1	425.0581	.0000	27.9464	15.2097	1.8988	15.2097	.0612	.3500	.0002
52	23	1	78.8000	.0000	27.9512	2.8192	10.2444	2.8192	.3295	.3500	.0002
53	24	1	418.4715	.0000	27.9480	14.9731	1.9289	14.9731	.0622	.3500	.0002
54	25	1	1607.3333	.0000	28.9602	14.5702	.5260	14.5702	.0049		
55	26	1	1061.9019	.0000	29.0535	36.5497	.7598	36.5497	.0049		
56	27	1	1696.1124	.0000	28.9468	58.5938	.4989	58.5938	.0049		
57		1						2.2216	.0000	1.0500	.0002
58		1						5.6276	.0000	1.0500	.0002
59		1						5.4359	.0000	1.0500	.0005
60		1						6.8481	.0000	1.0500	.0002
61		1						7.0754	.0000	1.0500	.0002
62		1						3.1321	.0000	1.0500	.0005
63	28	1	250.1309	.0000	27.5936	9.0648	3.1087	9.0648	.0646		
64	29	1	350.2864	.0000	27.5948	12.6938	2.2199	12.6938	.0461		
65	30	1	236.2340	.0000	27.5917	8.5617	3.2912	8.5617	.0685		
66		1						41.1030	.0000	1.0500	.0001
67		1						32.2706	.0000	1.0500	.0001
68		1						43.9987	.0000	1.0500	.0001
69	31	1	3237.8641	.0000	27.5879	117.3648	.2401	117.3648	.0050		
70		1						.8877	.0079		
71		1						3.3846	.0085		
72	32	1	24.3305	.0000	27.4797	.8854	31.5332	.8854	.5000	1.3000	.0005
73	33	1	92.5532	.0000	27.4588	3.3706	8.2781	3.3706	.1313	1.3000	.0003
74	34	1	117.0838	.0000	27.4565	4.2643	6.5432	4.2643	.1037	1.3000	.0008
75		1						.0108	.0000	1.3000	.0005
76		1						.0000	.0000	1.3000	REVERSED
77		1						.0068	.0000	1.3000	.0005
78		1						.0011	.0000	1.3000	.0005
79	35	1	2.6033	.0000	27.4597	.0948	294.3191	.0948	.6667		
80	36	1	.0000	.0000	27.9229	.0000	INF.	.0000	.0000		
81		1						.0000	.2526	1.4000	REVERSED
82		1						.7098	.1970	1.0500	.0026
83		1						.6365	.1955	1.0500	.0026
84		1						.7204	.1900	1.0500	.0026
85		1						.0000	.2058	1.4000	REVERSED
86		1						.9391	.1499	1.0500	.0026
87		1						.1372	.1372	1.0500	.0026
88		1						.0894	.0894	1.0500	.0026
89		1						.2221	.2221	1.4000	REVERSED
90		1						.0212	.0212	1.9000	.0002
91	38	1	5.0200	.0000	24.7491	.2028	122.0363	.2028	.0212	1.9000	.0002
92	39	1	5.0115	.0000	24.7270	.2027	122.0456	.2027	.0212	1.9000	.0002
93	40	1	4.9370	.0000	24.7381	.1996	124.0112	.1996	.0538	1.9000	.0006
94	41	1	48.0340	.0000	28.0228	1.7141	16.7164	1.7141	.3679		
95	42	1	71.2681	.0000	28.0033	2.5450	11.2509	2.5450	.2476		
96		1	36.5545	.0000	28.0185	1.7760	26.8199	1.7760	.4582		
97		1						39.3642	.0073		
98		1						29.8421	.0117		
99		1						16.9396	.0189		
100		1						24.5442	.0000	1.0500	.0003

Figure 6.2-16. - Continued

[illegible]

Figure 6.2-16. - Continued

161	73	1	389.6353	.0000	28.5149	13.6642	2.1626	13.6642	.0757			
162	74	1	35.5896	.0000	28.4857	1.2494	23.6566	1.2494	.8568			
163	75	1	24.8190	.0000	28.3258	.8761	33.3266	.8761	.9929	.3500	.0002	
164	76	1	7.6650	.0000	28.3299	.2706	107.9232	.2706	3.2146	.3500	.0003	
165	77	1	22.1200	.0000	28.3364	.7806	37.8142	.7806	1.1139	.3500	.0003	
166									.0000	1.0500	REVERSED	
167									.0000	1.0500	REVERSED	
168									.0000	1.0500	.0002	
169									.0000	1.0500	.0002	
170									.0000	1.0500	.0003	
171									.0000	1.0500	REVERSED	
172	78	1	71.9645	.0000	27.9687	2.5730	11.0761	2.5730	.2062			
173	79	1	37.2843	.0000	27.9753	1.3328	21.3886	1.3328	.3980			
174	80	1	57.5689	.0000	27.9755	2.0578	13.8524	2.0578	.2577			
175	81	1	.0000	.0000	27.8938	.0000	INF.	.0000	.0000	1.6500	.0005	
176	82	1	.0000	.0000	27.8938	.0000	INF.	.0000	.0000	1.6500	.0005	
177	83	1	.0000	.0000	27.9062	.0000	INF.	.0000	.0000	1.6500	.0005	
178									.0011			
179									.0010			
180									.0011			
181	84	1	187.0818	.0000	27.8548	6.7163	4.2071	6.7163	.0596	1.3000	.0001	
182	85	1	129.5500	.0000	27.8571	4.6505	6.0762	4.6505	.0860	1.3000	.0001	
183	86	1	149.4308	.0000	27.8547	5.3646	5.2670	5.3646	.0745	1.3000	.0001	
184									.0002	1.3000	.0028	
185									.0000	1.3000	REVERSED	
186									.0000	1.3000	REVERSED	
187									.0033	1.3000	.0021	
188	88	1	.0000	.0000	28.2576	.0000	INF.	.0000	.0000			
189	89	1	11.2474	.0000	27.8570	.4038	69.9818	.4038	.9863			
190									.0000	1.3000	REVERSED	
191									.0000	1.3000	.0013	
192									.0000	1.3000	REVERSED	
193	87	1	.0000	.0000	28.2576	.0000	INF.	.0000	.0000			
194									.0001	.3800	.0020	
195									.0000	.3800	.0021	
196									.0001	.3900	.0025	
197									.0001	.3900	.0024	
198									.0001	.3900	.0022	
199									.0000	.3900	.0021	
200									.0000	.3900	.0023	
201									.0000	.3900	.0021	
202									.0000	.3900	.0021	
203									.0000	1.0500	.0053	
204									.0000	1.0500	.0053	
205									.0000	1.0500	.0053	
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053	
207									.0000	.1460	.0053	
208									.0000	.1340		
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023	
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023	
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
212									.0000	.1340		
213									.0000	.1310		
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023	
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370			

Figure 6.2-16. - Continued

218							.0000	.0070	
219							.0000	.0062	
220	98		45.9184	.0000	.0000	.0000	2.1778	.0000	
221								.0000	
222								.0000	
223	99		.0000	.0000	.0000	.0000	INF.	.0000	
224	100		.0000	.0000	.0000	.0000	INF.	.0000	
225								.0000	
226								.0000	
227								.0215	
228								.0010	
229								.0010	
230								.0000	
231	101		.0000	.0000	29.9257	.0000	INF.	.0002	
232								.0002	
233								.0002	
234	102		.0000	.0000	.0000	.0000	INF.	.0000	
235	103		.0000	.0000	.0000	.0000	INF.	.0000	
236	104		.0000	.0000	.0000	.0000	INF.	.0000	
237	105		.0000	.0000	.0000	.0000	INF.	.0000	
240	108		.0000	.0000	.0000	.0000	INF.	.0000	

NODE	1	10	10	29.0000	29.8917	29.9543	29.9257	29.8519	29.9127	29.8809	29.0000	29.0000	29.0000
NODE	11	10	20	29.6468	29.6158	29.6823	29.6983	29.7107	29.7274	29.7399	29.4576	29.2299	29.2309
NODE	21	30	30	29.2312	28.1798	28.1736	28.1185	29.7110	29.7279	29.7022	29.2022	29.0000	29.7022
NODE	31	40	40	29.6540	28.6343	28.6333	28.5499	29.8250	29.8422	29.8707	28.7853	28.8201	28.8207
NODE	41	50	50	28.7750	28.0000	28.0000	29.0000	29.5638	29.5624	29.5612	28.5117	28.5104	28.5107
NODE	51	60	60	27.2138	27.2124	27.2138	29.5458	29.5498	29.5562	28.9991	28.5057	28.5058	29.5561
NODE	61	70	70	29.5576	29.5552	28.2576	28.2576	28.2553	29.1658	29.1658	29.1598	29.1558	29.1598
NODE	71	80	80	29.1598	29.0000	29.0000	29.9257	29.9257	29.9257	29.0000	29.0000	29.0000	29.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	198.92	208.10	224.24
VOLTAGE	30.00	30.05	30.04
POTASSIUM	0.0000	0.0000	0.0000
TEMP	180.0000	180.0000	180.0000
SOC REMAIN			

CRYOGEN USAGE				
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	H2O PROD (LBS)
02	3124.00	3035.56	88.44	99.61
M	368.00	356.86	11.14	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE INVERTER PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-16. - Concluded

1A	452.7500	-.6872	5.7288	472.0463	-.9591	4.1048	.7650	.7165	591.8301
1B	459.1900	-.6896	5.7899	479.2391	-.9582	4.1873	.7650	.7198	600.2484
1C	319.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	.6243	417.2549
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650									
2A	295.7200	-.7136	3.6036	300.7306	.9833	2.6150	.7650	.7257	386.5621
2B	319.6350	-.7256	3.8303	322.3711	.9915	2.8032	.7650	.7319	417.8235
2C	197.0000	-.6323	2.7085	222.6408	.8848	1.9360	.7650	.7148	257.5163
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	424.6000	-.6945	5.3164	435.0745	-.9759	3.7833	.7650	.7116	555.0327
3B	461.1260	-.7115	5.6357	474.1603	-.9725	4.1231	.7650	.7316	602.7791
3C	411.8000	-.6913	5.1802	420.5765	-.9791	3.6572	.7650	.7060	538.3007
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7650									
ACCUMULATED WATT-HRS OF SOURCES 125317.28 AND LOADS 117499.04 117266.37									

Figure 6.2-17. - Continued

44	19	179.3000	.0000	29.2904	6.1214	4.8264	2.4569	.0091	.2000	.0008
45	20	59.4000	.0000	29.3161	2.0262	14.7750	6.1214	.1015		
46	21	226.5718	.0000	29.2774	7.7388	3.8641	2.0262	.3064		
47							7.7388	.0809		
48							91.2482	.0057		
49							80.0742	.0071		
50							121.1955	.0048		
51	22	137.9806	.0000	28.4417	4.8513	6.0575	4.8513	.1946	.3500	.0002
52	23	81.3466	.0000	28.4441	2.8599	10.2757	2.8599	.3295	.3500	.0002
53	24	149.4279	.0000	28.4664	5.2511	5.5965	5.2511	.1772	.3500	.0002
54	25	128.3329	.0000	29.5259	43.4712	1.6841	43.4712	.0049		
55	26	805.7255	.0000	29.6051	27.2157	1.0926	27.2157	.0049		
56	27	1645.4902	.0000	29.4668	55.8421	.5325	55.8421	.0049		
57							3.7872	.0000	1.0500	.0002
58							4.8830	.0000	1.0500	.0002
59							5.0318	.0000	1.0500	.0005
60							5.1567	.0000	1.0500	.0002
61							7.6877	.0000	1.0500	.0002
62							3.4157	.0000	1.0500	.0005
63	28	251.6282	.0000	28.1075	8.9523	3.2043	8.9523	.0646		
64	29	353.1475	.0000	28.1072	12.5643	2.2832	12.5643	.0461		
65	30	237.3323	.0000	28.1066	8.4440	3.3971	8.4440	.0685		
66							37.4226	.0000	1.0500	.0001
67							34.8044	.0000	1.0500	.0001
68							43.0320	.0000	1.0500	.0001
69	31	3239.2052	.0000	28.1051	115.2527	.2489	115.2527	.0050		
70							.9017	.0079		
71							2.5113	.0085		
72							4.3322	.0067		
73	32	25.1659	.0000	27.9795	.8994	31.6084	.8994	.5000	1.3000	.0005
74	33	69.3456	.0000	27.9656	2.4797	11.4595	2.4797	.1813	1.3000	.0003
75	34	121.1087	.0000	27.9561	4.3321	6.5578	4.3321	.1037	1.3000	.0008
76							.0272	.0000	1.3000	.0005
77							.0000	.0000	1.3000	REVERSED
78							.0000	.0000	1.3000	REVERSED
79							.0000	.0000	1.3000	.0005
80							.0000	.0000		
81							.0000	.0000		
82							.0000	.0000		
83	36	.8082	.0000	27.9663	.0289	983.2917	.0289	15.5556		
84	37	.0000	.0000	28.4297	.0000	INF.	.0000	.0000		
85							.0000	.2526	1.4000	REVERSED
86							.5429	.1970	1.0500	.0026
87							.6779	.1955	1.0500	.0026
88							.5204	.1900	1.0500	.0026
89							.0000	.2058	1.4000	REVERSED
90							.9224	.1499	1.0500	.0026
91							1.2766	.1372	1.0500	.0026
92							2.0996	.0894	1.0500	.0026
93							.0000	.2221	1.4000	REVERSED
94	38	5.2029	.0000	25.1799	.2066	121.8819	.2066	.0212	3.9000	.0002
95	39	5.1967	.0000	25.1654	.2065	121.8857	.2065	.0212	3.9000	.0002
96	40	5.1019	.0000	25.1328	.2030	123.8622	.2030	.0538	3.9000	.0006
97	41	45.2337	.0000	28.4831	1.5901	18.2884	1.5901	.4032		
98	42	69.2512	.0000	28.4289	2.4359	11.9337	2.4359	.2631		
99	43	39.6894	.0000	28.4036	1.3973	20.7852	1.3973	.4582		
100							42.5739	.0073		
101							30.8345	.0117		
102							20.1956	.0189	1.0500	.0003
103							23.5479	.0000		

Figure 6.2-17. - Continued

[illegible]

Figure 6.2-17. - Continued

[illegible]

Figure 6.2-17. - Continued

LINE	QTY	UNIT	PRICE	TOTAL	TAX	DISC	NET	GROSS	TOTAL TAX	TOTAL NET	TOTAL GROSS	TOTAL TAX	TOTAL NET	TOTAL GROSS
218	1	00						.0000		.0070				
219	1	00						.0000		.0062				
220	98	00	45.9184	.0000	.0000	.0000	2.1778	.0000		.0000				
221	1	00						.0000		.0000				
222	1	00						.0000		.0000				
223	99	00	.0000	.0000	.0000	.0000	INF.	.0000		.0000				
224	100	00	.0000	.0000	.0000	.0000	INF.	.0000		.0000				
225	1	00						.0000		.0007				
226	1	00						.0000		.0002				
227	1	00						.0203		.0004				
228	1	00						.0000		.0002				
229	1	00						.0000		.0002				
230	101	00	.0000	.0000	30.3594	.0000	INF.	.0000		.0022				
231	1	00						163.9295		.0002				
232	1	00						172.3063		.0002				
233	1	00						180.0895		.0002				
234	102	00	.0000	.0000	.0000	.0000	INF.	.0000		.1850		.6500	.0007	
235	103	00	.0000	.0000	.0000	.0000	INF.	.0000		.1850		.6500	.0008	
236	104	00	.0000	.0000	.0000	.0000	INF.	.0000		.1850		.6500	.0007	
237	105	00	.0000	.0000	.0000	.0000	INF.	.0000		.1850		.6500	.0008	
238	106	00	.0000	.0000	.0000	.0000	INF.	.0000		.0000				

NODE	1	10	10	0.0000	30.2888	30.3382	30.3594	30.2561	30.3038	30.3234	0.0000	0.0000	0.0000
NODE	11	20	20	30.1160	30.0804	30.1281	30.1463	30.1562	29.9117	29.9369	29.9037	29.7369	29.7371
NODE	21	30	30	29.7378	28.6861	28.6861	28.6849	28.6830	29.7297	29.7159	29.7089	28.4158	28.4158
NODE	31	40	40	28.4297	29.0843	29.0698	29.038	29.02281	30.2345	30.3128	29.1779	29.2622	29.2628
NODE	41	50	50	29.1781	0.0000	0.0000	0.0000	29.9447	29.9418	29.9423	28.8918	28.8907	28.8917
NODE	51	60	60	27.5947	27.5923	27.5947	29.9258	29.9277	29.9373	28.8770	28.8869	28.8869	29.9355
NODE	61	70	70	29.9355	29.9347	28.8355	28.6355	28.6347	29.9458	0.0000	0.0000	29.5358	0.0000
NODE	71	80	80	29.5377	0.0000	0.0000	30.3594	30.3594	30.3594	0.0000	0.0000	0.0000	0.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	163.93	172.31	180.14
VOLTAGE	30.38	30.42	30.45
PARASITIC	.0000	.0000	.0000
WEMP	180.0000	180.0000	180.0000
SOC			
AM. REMAIN			

CRYOGEN USAGE				
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	H2O PROD (LBS)
O2	3124.00	2916.54	207.46	233.67
H2	368.00	341.87	26.13	

*****INVERTER STATUS*****				*****SINGLE PHASE INVERTER*****		CURRENT	EFFICIENCY	CURRENT	D.C. POWER
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	PER CENT	RATIO	(WATT)
*****C. BUS*****									

Figure 6.2-17. - Concluded

1A	322.1000	-.6129	4.5702	329.6843	-.9770	2.8668	.7650	.6273	421.0458
1B	340.6000	-.6256	4.7342	349.8076	-.9737	3.0418	.7650	.6425	445.2288
1C	319.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	.6243	417.2549
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650									
2A	207.2800	-.6421	2.8072	229.0666	.9049	1.9919	.7650	.7096	270.9542
2B	212.1000	-.6454	2.8576	231.9939	.9142	2.0173	.7650	.7060	277.2549
2C	197.0000	-.6325	2.7085	222.6408	.8848	1.9359	.7650	.7148	257.5163
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	424.6000	-.6945	5.3164	435.0745	-.9759	3.7833	.7650	.7116	555.0327
3B	422.4000	-.6953	5.2829	432.2298	-.9773	3.7585	.7650	.7115	552.1569
3C	411.8000	-.6913	5.1802	420.5765	-.9751	3.6572	.7650	.7060	538.3007
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7650									
ACCUMULATED WATT-HRS OF SOURCES 296422.96 AND LOADS 279071.25 278379.62									

Figure 6.2-18.- Circuit solution at 23 hours 15 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 23.25000 TIME STEP .06667 NEXT INPUT TIME 23.32639													
TOTAL SOURCE POWER 17027.3132 TOTAL DC/AC LOAD 16071.3062 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SW.	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR PPC RESISTANCE SHUNT

1	1	1	30.21	179.27						179.2687	.0006		
2	2	1	30.26	187.56						187.5566	.0005		
3	3	1	30.27	195.95						195.9547	.0005		
4	4	1			.0000	.0000	30.1148	.0000	INF.	.0000	.0000		
5	5	1			.0000	.0000	30.1726	.0000	INF.	.0000	.0000		
6	6	1			.0000	.0000	30.1935	.0000	INF.	.0000	.0000		
7	7	0								.0000	.0003		
8	8	0								.0000	.0002		
9	9	0								.0000	.0005		
10	10	0								.0000	.0016		
11	11	0								.0000	.0002		
12	12	0								.0000	.0009		
13	13	5			41.2549	.0000	28.5461	1.4452	20.8129	1.4452	1.0606		
14	14	5			45.9554	.0000	28.6159	1.6059	18.7647	1.6059	.9459		
15	15	0			58.7501	.0000	28.6173	2.0530	14.6882	2.0530	.7487		
16	16	0								16.7185	.0016		
17	17	0								48.4856	.0014		
18	18	0								7.4078	.0015		
19	19	7			27.2713	.0000	28.5722	.9545	31.5136	.9545	1.5786		
20	20	8			38.7706	.0000	28.6399	1.3537	22.2606	1.3537	1.1045		
21	21	9			34.0517	.0000	28.6290	1.1894	25.3522	1.1894	1.2824		
22	22	10			16.7370	.0000	28.5887	.5854	51.3782	.5854	2.5455		
23	23	11			13.0888	.0000	28.6596	.4567	65.9841	.4567	3.2308		
24	24	0								6.6030	.0317		
25	25	0								7.8351	.0312		
26	26	0								.0000	.3900		
27	27	0								.0000	.3900		
28	28	0								6.0871	.0058		
29	29	12			405.7816	.0000	29.1462	13.9223	2.1483	13.9223	.0549		
30	30	15			15.0642	.0000	29.2104	.5157	58.0653	.5157	1.4247		
31	31	0								8.6686	.0183		
32	32	0								9.7558	.0206		
33	33	0								9.8833	.0195		
34	34	16			65.3030	.0000	29.1367	2.2413	13.3497	2.2413	.3496		
35	35	17			98.5338	.0000	29.1613	3.3789	8.8591	3.3789	.2288		
36	36	18			56.1460	.0000	29.1813	1.9240	15.5722	1.9240	.4056		
37	37	0								4.6192	.0074	.2000	.0009
38	38	0								.0579	.0126	.2000	.0016
39	39	0								5.9763	.0091	.2000	.0008
40	40	0								6.3189	.0074	.2000	.0009
41	41	0								1.9829	.0126	.2000	.0016
42	42	0											
43	43	1											

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Figure 6.2-18. - Continued

44							1.8081	.0091	.2000	.0008
45	19	317.7774	.0000	29.0526	10.9381	2.7136	10.9381	.0575		
46	20	59.4000	.0000	29.1083	2.0407	14.5705	2.0407	.3064		
47	21	226.3032	.0000	29.0723	7.7842	3.8157	7.7842	.0809		
48							105.1909	.0057		
49							92.3694	.0071		
50							135.0598	.0044		
51	22	429.0209	.0000	28.1966	15.2154	1.9145	15.2154	.0612	.3500	.0002
52	23	80.0434	.0000	28.1953	2.8389	10.2615	2.8389	.3295	.3500	.0002
53	24	421.1279	.0000	28.2017	14.9328	1.9509	14.9328	.0622	.3500	.0002
54	25	1609.3333	.0000	29.2130	35.0898	.5351	35.0898	.0049		
55	26	1061.9019	.0000	29.3056	36.2356	.8136	36.2356	.0049		
56	27	1696.1124	.0000	29.2004	58.0854	.5076	58.0854	.0049		
57							1.9242	.0000	1.0500	.0002
58							4.3141	.0000	1.0500	.0002
59							6.0055	.0000	1.0500	.0005
60							7.0808	.0000	1.0500	.0002
61							8.3184	.0000	1.0500	.0002
62							2.4986	.0001	1.0500	.0005
63	28	250.8619	.0000	27.8478	9.0084	3.1560	9.0084	.0646		
64	29	351.6730	.0000	27.8487	12.6280	2.2514	12.6280	.0461		
65	30	236.7744	.0000	27.8466	8.5029	3.3435	8.5029	.0685		
66							39.3777	.0000	1.0500	.0001
67							29.5332	.0000	1.0500	.0001
68							47.3864	.0000	1.0500	.0001
69	31	3238.5074	.0000	27.8439	116.3098	.2444	116.3098	.0050		
70							.8946	.0079		
71							2.4921	.0085		
72							4.2984	.0067		
73	32	24.7430	.0000	27.7266	.8924	31.5704	.8924	.5000	1.3000	.0005
74	33	68.1833	.0000	27.7136	2.4603	11.4459	2.4603	.1813	1.3000	.0003
75	34	119.0804	.0000	27.7044	4.2983	6.5500	4.2983	.1037	1.3000	.0008
76							.0292	.0000	1.3000	.0005
77							-.0000	.0000	1.3000	REVERSED
78							-.0000	.0000	1.3000	REVERSED
79							-.0011	.0000	1.3000	.0005
80							.0287	15.5556		
81	36	.7946	.0000	27.7143	.0287	982.1211	.0000	.0000		
82	37	.0000	.0000	28.1733	.0000	INF.	.0000	.2526	1.4000	REVERSED
83							.5623	.1970	1.0500	.0026
84							.6556	.1955	1.0500	.0026
85							.5777	.1900	1.0500	.0026
86							-.0000	.2058	1.4000	REVERSED
87							.9340	.1499	1.0500	.0026
88							1.3584	.1372	1.0500	.0026
89							2.2134	.0894	1.0500	.0026
90							.0000	.2221	1.4000	REVERSED
91							.2051	.0212	1.9000	.0002
92	38	5.1261	.0000	24.9991	.2051	121.9366	.2049	.0212	3.9000	.0002
93	39	5.1204	.0000	24.9855	.2049	121.9412	.2015	.0538	3.9000	.0006
94	40	5.0302	.0000	24.9813	.2015	121.9162	.17310	.3679		
95	41	48.9286	.0000	28.2667	1.7310	16.6979	1.7310	.2476		
96	42	72.6319	.0000	28.2535	2.5707	11.2380	2.5707	.4582		
97	43	39.1960	.0000	28.2363	1.3881	20.7991	1.3881	.0073		
98							45.1088	.0117		
99							33.5295	.0189		
100							21.8697	.0000	1.0500	.0003
101							24.3730			

Figure 6.2-18. - Continued

[illegible]

Figure 6.2-18. - Continued

161	73	1	458.2264	.0000	28.6982	15.9671	1.8618	15.9671	.0644		
162	74	1	36.0444	.0000	28.6590	1.2577	23.6435	1.2577	.8568		
163	75	1	24.8150	.0000	28.5110	.8704	33.7506	.8704	.9929	.3500	.0002
164	76	1	7.6650	.0000	28.5129	.2688	109.2788	.2688	3.2146	.3500	.0003
165	77	1	22.1200	.0000	28.5225	.7755	37.8921	.7755	1.1139	.3500	.0003
166									.0000	1.0500	REVERSED
167									.0000	1.0500	REVERSED
168									.0000	1.0500	.0002
169									.0000	1.0500	.0002
170									.0000	1.0500	.0003
171									.0000	1.0500	REVERSED
172	78	1	72.0959	.0000	28.1484	2.5613	11.1961	2.5613	.2062		
173	79	1	37.2883	.0000	28.1591	1.3242	21.6629	1.3242	.3980		
174	80	1	57.7031	.0000	28.1581	2.0493	13.9983	2.0493	.2577		
175	81	1	.0000	.0000	28.0754	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	28.0771	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	28.0866	.0000	INF.	.0000	.0000	1.6500	.0005
178									.0011		
179									.0011		
180									.0011		
181	84	1	226.8073	.0000	28.0347	8.0903	3.5148	8.0903	.0494	1.3000	.0001
182	85	1	170.1836	.0000	28.0345	6.0705	4.6841	6.0705	.0659	1.3000	.0001
183	86	1	191.0113	.0000	28.0331	6.8138	4.1730	6.8138	.0587	1.3000	.0001
184									.0000	1.3000	.0028
185									.0000	1.3000	REVERSED
186									.0000	1.3000	REVERSED
187									.0000	1.3000	.0021
188	88	1	.0000	.0000	28.4352	.0000	INF.	.0000	.0000		
189	89	1	11.3845	.0000	28.0340	.4061	70.0190	.4061	.9863		
190									.0000	1.3000	.0013
191									.0000	1.3000	REVERSED
192									.0000	1.3000	REVERSED
193	67	1	.0000	.0000	28.4354	.0000	INF.	.0000	.0000		
194									.0001	.0217	.0020
195									.0000	.0410	.0021
196									.0001	.0217	.0025
197									.0000	.0410	.0024
198									.0001	.0217	.0022
199									.0000	.0410	.0021
200									.0001	.0217	.0023
201									.0000	.0410	.0021
202									.0000	.0000	.0053
203									.0000	.0000	.0053
204									.0000	.0000	.0053
205									.0000	.0000	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207									.0000	.1340	
208									.0000	.1310	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
212									.0000	.1340	
213									.0000	.1310	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		

Figure 6.2-18. - Continued

218		0						.0000	.0070
219		0						.0000	.0062
220	98	0	45.9184	.0000	.0000	.0000	2.1778	.0000	.0000
221		0						.0000	.0000
222		0						.0000	.0000
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000
225		0						.0000	.0007
226		0						.0000	.0002
227		1						.0215	.0002
228		1						.0021	.0002
229		1						.0010	.0002
230	101	1	.0000	.0000	30.1935	.0000	INF.	.0000	.0022
231		1						179.2669	.0002
232		1						187.3520	.0002
233		0						195.2074	.0000
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500 .0007
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500 .0008
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500 .0007
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.6500 .0008
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000

[illegible]

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE SWITCH CON	1	1	1
CURRENT	119.27	187.56	195.95
VOLTAGE	30.21	30.26	30.29
PARASITIC	0.000	0.000	0.000
TEMP	180.0000	180.0000	180.0000
AMT REMAIN			

CROGEN USAGE			
LOADED	REMAINING	CONSUMED	H2O PROD
(LBS)	(LBS)	(LBS)	(LBS)
3124.00	2833.22	290.78	327.30
368.30	331.23	36.77	

*****INVERTER STATUS*****			
INVERTER	LOAD (WATT)	P.W.P. FAC.	CURRENT (AMP)

*****SINGLE PHASE INVERTER*****			
LOAD (VA)	P.W.P. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT

CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-18. - Concluded

1A	452.7500	-.6872	5.7288	472.0463	-.9591	4.1048	.7650	.7165	591.8300
1B	459.1900	-.6896	5.7899	479.2391	-.9582	4.1673	.7650	.7198	600.2480
1C	310.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	.6243	417.2540

A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650

2A	295.7200	-.7136	3.6036	300.7306	.9833	2.6150	.7650	.7257	386.5620
2B	319.6350	-.7256	3.8303	322.3711	.9915	2.8032	.7650	.7319	417.8230
2C	197.0000	-.6325	2.7085	222.6908	.8848	1.9360	.7650	.7148	257.5160

A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650

3A	424.6000	-.6945	5.3164	435.0745	-.9759	3.7833	.7650	.7116	555.6320
3B	461.1260	-.7115	5.6357	474.1603	-.9725	4.1231	.7650	.7316	602.7790
3C	411.8000	-.6913	5.1802	420.5765	-.9791	3.6572	.7650	.7060	538.3000

A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7650

ACCUMULATED WATT-HRS OF SOURCES	416258.52	AND LOADS	392315.71	391291.44
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Figure 6.2-19.- Circuit solution at 1 day 4 hours 15 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 28.25000 TIME STEP .01667 NEXT INPUT TIME 28.26667													
TOTAL SOURCE POWER 20425.0408 TOTAL DC/AC LOAD 19172.9116 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

1	1	1	29.82	218.20						218.1974	.0006		
2	2	1	29.87	226.78						226.7841	.0005		
3	3	1	29.91	238.94						238.9359	.0005		
4	1	1			.0000	.0000	29.6946	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	29.7625	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	29.7891	.0000	INF.	.0000	.0000		
7		0								.0000	.0003		
8		0								.0000	.0002		
9		0								.0000	.0005		
10		0								.0000	.0016		
11		0								.0000	.0002		
12		0								.0000	.0009		
13	4	1			6.6719	.0000	28.1423	.2371	125.0692	.2371	6.3636		
14	5	1			11.4000	.0000	28.2293	.4038	73.5873	.4038	3.6842		
15	6	1			6.7149	.0000	28.2275	.2379	125.0237	.2379	6.3636		
16		1								16.5726	.0016		
17		1								51.7253	.0014		
18		1								9.9468	.0015		
19	7	1			26.7793	.0000	28.1422	.9513	31.1678	.9513	1.5786		
20	8	1			38.2811	.0000	28.2188	1.3566	21.9059	1.3566	1.1045		
21	9	1			33.2311	.0000	28.2319	1.1771	25.2670	1.1771	1.2824		
22	10	1			113.6149	.0000	28.1439	4.0369	7.3449	4.0369	.3733		
23	11	1			110.5467	.0000	28.2070	3.9192	7.5825	3.9192	.3853		
24		0								6.5656	.0317		
25		0								7.7895	.0312		
26		0								.0000	.3900		
27		0								.0000	.3900		
28		0								6.0460	.0058		
29	12	1			397.6261	.0000	28.7394	13.2356	2.1321	13.8356	.0549		
30	15	1			14.9525	.0000	28.7935	.5193	56.8712	.5193	1.4247		
31		1								18.2277	.0183		
32		1								19.8528	.0206		
33		1								18.7168	.0195		
34		1								11.9448	.0635		
35	16	1			341.1236	.0000	28.5585	11.9448	2.4544	13.3906	.0567		
36	17	1			382.2884	.0000	28.5491	13.3906	2.1888	9.6448	.0779		
37	18	1			276.0790	.0000	28.6248	9.6448	3.0458	6.2828	.0074	.2000	.0009
38		1								1.2086	.0126	.2000	.0016
39		1								3.0798	.0091	.2000	.0008
40		1								5.2536	.0074	.2000	.0009
41		1								5.9919	.0126	.2000	.0016
42		1											
43		1											

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Figure 6.2-19. - Continued

[illegible]

Figure 6.2-19. - Continued

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Figure 6.2-19. - Continued

161	73	456.9089	.0000	28.2304	16.1850	1.8087	16.1850	.0644		
162	74	34.8947	.0000	28.2211	1.2365	23.6807	1.2365	.8568		
163	75	24.8150	.0000	28.0435	.8849	32.6852	.8849	.9929	.3500	.0002
164	76	8.0650	.0000	28.0447	.2876	100.5758	.2876	3.0552	.3500	.0003
165	77	22.1200	.0000	28.0519	.7585	36.6888	.7885	1.1139	.3500	.0003
166							.0000	.0000	1.0500	REVERSED
167							.0000	.0000	1.0500	REVERSED
168							4.5310	.0000	1.0500	.0002
169							3.4931	.0000	1.0500	.0002
170							1.3458	.0000	1.0500	.0003
171							.0000	.0000	1.0500	REVERSED
172	78	96.7418	.0000	27.6889	3.4939	8.0777	3.4939	.1527		
173	79	37.2790	.0000	27.6943	1.3461	20.9719	1.3461	.3980		
174	80	125.5450	.0000	27.6962	4.5329	6.2277	4.5329	.1177		
175	81	.0000	.0000	27.6223	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	27.6233	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	27.6306	.0000	INF.	.0000	.0000	1.6500	.0005
178							10.2553	.0011		
179							8.0907	.0010		
180							8.0824	.0011		
181	84	224.5441	.0000	27.5774	8.1423	3.4364	8.1423	.0494	1.3000	.0001
182	85	167.9239	.0000	27.5804	6.0885	4.5959	6.0885	.0659	1.3000	.0001
183	86	188.2765	.0000	27.5772	6.8273	4.0981	6.8273	.0587	1.3000	.0001
184							.0003	.0000	1.3000	.0028
185							1.2521	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							2.1107	.0000	1.3000	.0021
188	88	.0000	.0000	27.9823	.0000	INF.	.0000	.0000		
189	89	92.7519	.0000	27.5815	3.3628	8.3193	3.3628	.1174		
190							.0000	.0000	1.3000	REVERSED
191							.0000	.0000	1.3000	.0013
192							.0000	.0000	1.3000	REVERSED
193	87	.0000	.0000	27.9823	.0000	INF.	.0000	.0000		
194							.0001	.0217	.3800	.0020
195							.0000	.0410	.3800	.0021
196							.0001	.0217	.3900	.0025
197							.0000	.0410	.3900	.0024
198							.0001	.0217	.3900	.0022
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0021
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207							.0000	.1310	.2000	.0023
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212							.0000	.1310	.2000	.0023
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-10. - Continuer

218	0						.0000	.0070		
219	0						.0000	.0062		
220	98	45.9184	.0000	.0000	.0000	2.1778	.0000	.0000		
221	0						.0000	.0000		
222	0						.0000	.0000		
223	99	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
224	100	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
225	0						.0000	.0007		
226	0						.0000	.0002		
227	1						.0238	.0002		
228	1						.0010	.0002		
229	1						.0000	.0002		
230	101	.0000	.0000	29.7891	.0000	INF.	.0000	.0002		
231	1						218.1947	.0002		
232	1						226.7818	.0002		
233	1						236.8930	.0002		
234	102	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007
235	103	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008
236	104	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007
237	105	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008
240	108	.0000	.0000	.0000	.0000	INF.	.0000	.0000		

NODE	1	TO	10	29.0000	29.6946	29.7625	29.7891	29.6510	29.7112	29.7813	29.0000	29.0000
NODE	11	TO	20	29.5334	29.4984	29.3113	29.3087	29.3749	29.0650	29.0916	29.0000	29.0000
NODE	21	TO	30	29.9178	27.8661	27.8662	27.8662	29.3574	29.8838	29.8977	29.1558	28.9167
NODE	31	TO	40	27.6097	28.0000	28.0000	28.0000	29.6529	29.8957	28.8897	28.0000	27.5967
NODE	41	TO	50	27.745	26.0000	26.0000	26.0000	29.7496	29.6422	28.5552	28.6761	28.6758
NODE	51	TO	60	26.9418	26.9386	26.9418	26.9418	29.2733	29.2866	28.2879	28.2361	28.2373
NODE	61	TO	70	29.2823	29.2789	27.9823	27.9823	29.2733	29.2866	28.2225	28.2301	28.2373
NODE	71	TO	80	28.8833	29.0000	29.0000	29.7891	29.9763	28.8923	28.0000	28.8833	28.8833
NODE	81	TO	90	29.0000	29.0000	29.0000	29.7891	29.7891	29.7891	28.0000	28.0000	29.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	218.20	226.78	238.94
VOLTAGE	29.82	29.87	29.91
PARASITIC	.0000	.0000	.0000
TEMP	186.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	H2O PROD (LBS)
02	3124.00	2759.94	364.06	409.84
07	368.00	322.00	46.00	

*****INVERTER STATUS*****				*****SINGLE PHASE INVERTER*****			CURRENT	D.C.
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	RATIO	POWER (WATT)
*****A.C. BUS*****								

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QUALITY

Figure 6.2-19. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.6660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	239.6000	-.6716	3.1022	252.8172	.9477	2.1984	.7650	.7087	313.2026
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	966.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	440.4333	-.7023	5.4532	451.9626	-.9745	3.9301	.7650	.7207	575.7299
3B	483.5333	-.7181	5.8555	499.0934	-.9588	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 520159.24 AND LOADS 489922.23 488673.70									

Figure 6.2-20.- Circuit solution at 1 day 6 hours 30 minutes MET (on-orbit work day)

DC DISTRIBUTION NETWORK STATUS													
MISSION ELAPSED TIME 30.50000 TIME STEP .06667 NEXT INPUT TIME 30.61667													
TOTAL SOURCE POWER 19191.3245 TOTAL DC/AC LOAD 18085.9133 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT	
1	1	1	29.97	201.81						201.8122	.0006		
2	2	1	30.02	211.26						211.2588	.0005		
3	3	1	30.02	226.56						226.5630	.0005		
4	1	1			.0000	.0000	29.8610	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	29.9219	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	29.9041	.0000	INF.	.0000	.0000		
7	0	0								.0000	.0000		
8	0	0								.0000	.0000		
9	0	0								.0000	.0000		
10	0	0								.0000	.0000		
11	0	0								.0000	.0000		
12	0	0								.0000	.0000		
13	4	1			10.1291	.0000	28.3023	.3579	83.3240	.3579	.0016		
14	5	1			14.7986	.0000	28.3903	.5213	57.3224	.5213	.0014		
15	6	1			11.8491	.0000	28.3383	.4181	71.4106	.4181	.0015		
16	1	1								16.7192	.0016		
17	1	1								48.5761	.0014		
18	1	1								7.1158	.0015		
19	7	1			474.3885	.0000	28.3351	16.7405	1.7813	16.7405	.0087		
20	8	1			506.7569	.0000	28.3970	17.8455	1.6743	17.8455	.0031		
21	9	1			955.8799	.0000	28.3752	33.6872	.8864	33.6872	.0440		
22	10	1			16.6313	.0000	28.3261	.5871	50.7900	.5871	.0455		
23	11	1			13.0531	.0000	28.3944	.4597	64.9968	.4597	.0230		
24	1	1								6.5763	.0317		
25	1	1								7.8026	.0312		
26	1	1								.0000	.3900		
27	1	1								.0000	.3900		
28	1	1								6.0579	.0058		
29	12	1			399.9464	.0000	28.8551	13.8605	2.1367	13.8605	.0549		
30	13	1			14.9843	.0000	28.9121	.5183	57.2105	.5183	.0424		
31	1	1								10.6894	.0183		
32	1	1								12.2326	.0206		
33	1	1								10.9863	.0195		
34	1	1								2.2178	.3496		
35	16	1			63.9833	.0000	28.8497	2.2178	13.3577	3.3537	.2288		
36	17	1			96.7890	.0000	28.8607	3.5537	8.8345	1.9051	.4056		
37	18	1			55.0033	.0000	28.8720	1.9051	15.5609	5.5357	.0074	.2000	.0009
38	1	1								2.9829	.0126	.2000	.0016
39	1	1								4.9187	.0091	.2000	.0008
40	1	1								5.8960	.0074	.2000	.0009

Figure 6.2-20. - Continued

44	19	328.5742	.0000	28.7426	11.4316	2.5700	2.9357	.0091	.2000	.0008
45	20	205.4086	.0000	28.7482	7.1451	4.1127	11.4316	.0551		
46	21	225.8948	.0000	28.7601	7.8544	3.7426	7.1451	.0892		
47							7.8544	.0809		
48							113.2635	.0057		
49							99.3406	.0071		
50							140.9274	.0048		
51	22	424.2954	.0000	27.8926	15.2118	1.8950	15.2118	.0612	.3500	.0002
52	23	369.8954	.0000	27.8929	13.2613	2.1737	13.2613	.0702	.3500	.0002
53	24	417.9662	.0000	27.8940	14.9841	1.9239	14.9841	.0622	.3500	.0002
54	25	1674.3007	.0000	28.8950	57.9444	.5035	57.9444	.0049		
55	26	1061.9019	.0000	28.9990	36.6186	.7968	36.6186	.0049		
56	27	1696.1124	.0000	28.8929	58.7034	.4970	58.7034	.0049		
57							3.3535	.0000	1.0500	.0002
58							3.7029	.0000	1.0500	.0002
59							5.7739	.0000	1.0500	.0002
60							5.7196	.0000	1.0500	.0002
61							9.0099	.0000	1.0500	.0002
62							2.6018	.0000	1.0500	.0005
63	28	249.9730	.0000	27.5389	9.0771	3.0985	9.0771	.0646		
64	29	349.9884	.0000	27.5404	12.7032	2.2132	12.7082	.0461		
65	30	236.1184	.0000	27.5373	3.5745	3.2800	6.5745	.0685		
66							37.5527	.0000	1.0500	.0001
67							33.0357	.0000	1.0500	.0001
68							48.1666	.0000	1.0500	.0001
69	31	3269.7257	.0000	27.5329	118.7571	.2368	118.7571	.0050		
70							.8859	.0079		
71							2.4683	.0085		
72							4.2571	.0067		
73	32	24.2419	.0000	27.4268	.8839	31.5306	.8839	.5000	1.3000	.0005
74	33	66.7991	.0000	27.4133	2.4367	11.4316	2.4367	.1813	1.3000	.0001
75	34	116.6646	.0000	27.4045	4.2571	6.5418	4.2571	.1037	1.3000	.0008
76							.0282	.0000	1.3000	.0005
77							.0000	.0000	1.3000	REVERSED
78							.0000	.0000	1.3000	REVERSED
79							.0001	.0000	1.3000	.0005
80							.0284	15.5556		
81	36	.7785	.0000	27.4140	.0284	980.8869	.0000	.0000		
82	37	.0000	.0000	27.8692	.0000	INF.	.0000	.0000		
83							.0000	.2526	1.4000	REVERSED
84							.6785	.1970	1.0500	.0026
85							.6408	.1955	1.0500	.0026
86							.6875	.1900	1.0500	.0026
87							.0000	.2058	1.4000	REVERSED
88							.9330	.1499	1.0500	.0026
89							1.2275	.1372	1.0500	.0026
90							2.0669	.0894	1.0500	.0026
91							.0000	.2221	1.4000	REVERSED
92							.2026	.0212	3.9000	.0002
93							.2024	.0212	3.9000	.0002
94	38	5.0087	.0000	24.7224	.2026	122.0487	.1993	.0538	3.9000	.0006
95	39	5.0009	.0000	24.7040	.2024	122.0574	1.7123	.3679		
96	40	4.9236	.0000	24.7060	.1993	124.0265	16.7180	.2476		
97	41	47.9399	.0000	27.9968	1.7123	16.7180	2.5430	.4582		
98	42	71.1496	.0000	27.9788	2.5430	11.2499	1.3745	.0073		
99	43	38.4670	.0000	27.9871	1.3745	20.8205	43.3946	.0117		
100							32.2814	.0189	1.0500	.0003
101							18.9979	.0000		
102							24.5706			
103										

Figure 6.2-20. - Continued

[illegible]

Figure 6.2-20. - Continued

[illegible]

Figure 6.2-20. - Continued

[illegible]

NODE	1	TO	10	29.0000	29.3610	29.9219	29.9041	29.8206	29.8798	29.8588	29.0000	29.0000	29.0000
NODE	11	TO	20	29.6505	29.6155	29.6249	29.6249	29.6632	29.6992	29.7380	29.3957	29.1762	29.1767
NODE	21	TO	30	29.1778	29.1255	29.1255	29.1255	29.1933	29.1933	29.1507	29.0000	29.0000	29.8557
NODE	31	TO	40	29.7862	29.6608	29.6608	29.6608	29.7529	29.8009	29.8446	29.7523	29.7977	29.7984
NODE	41	TO	50	29.7432	29.7432	29.7432	29.7432	29.8000	29.8000	29.8000	29.8000	29.8000	29.8000
NODE	51	TO	60	29.1532	29.1507	29.1532	29.1532	29.4839	29.4862	29.4953	29.4505	29.4495	29.4500
NODE	61	TO	70	29.1944	29.1927	29.1944	29.1944	29.1932	29.1932	29.1932	29.1932	29.1932	29.1932
NODE	71	TO	80	29.0962	29.0000	29.0000	29.9043	29.9041	29.9041	29.9041	29.0000	29.0000	29.0000

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	201.81	211.26	226.56
VOLTAGE	29.97	30.02	30.02
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
DOC			
AH REMAIN			

	CRYOGEN USAGE			
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	2726.14	397.86	447.68
H2	368.00	317.60	50.40	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
1	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
2	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
3	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
4	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
5	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
6	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
7	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
8	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
9	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
10	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
11	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
12	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
13	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
14	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
15	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
16	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
17	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
18	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
19	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
20	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
21	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
22	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
23	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
24	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
25	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
26	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
27	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
28	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
29	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
30	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
31	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
32	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
33	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
34	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
35	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
36	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
37	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000
38	1000	0.95	10.0	1000	0.95	10.0	95.0	1.0	1000

Figure 6.2-20. - Concluded

1A	502.4500	-.7070	6.1802	526.6038	-.9541	4.5792	.7650	.7409	656.7974
1B	459.1900	-.6896	5.7899	479.2391	-.6582	4.1673	.7650	.7198	600.2484
1C	319.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	.6243	417.2549
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650									
2A	295.7200	-.7136	3.6036	300.7306	.9833	2.6150	.7650	.7257	386.5621
2B	319.6350	-.7256	3.8303	322.3711	.9915	2.8032	.7650	.7319	417.8235
2C	197.0000	-.6325	2.7085	222.6408	.8848	1.9360	.7650	.7148	257.5163
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	424.6000	-.6945	5.3164	435.0745	-.9759	3.7833	.7650	.7116	555.0327
3B	461.1260	-.7115	5.6357	474.1603	-.9725	4.1231	.7650	.7316	602.7761
3C	411.8000	-.6913	5.1802	420.5765	-.9791	3.6572	.7650	.7060	538.3007
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7650									
ACCUMULATED WATT-HRS OF SOURCES 567765.28 AND LOADS 534591.34 533242.16									

Figure 6.2-21.- Circuit solution at 1 day 7 hours 45 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 31.75000 TIME STEP .08333 NEXT INPUT TIME 31.83333													
TOTAL SOURCE POWER 17722.3169 TOTAL DC/AC LOAD 16712.4797 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	

1	30.14	186.53						186.5285	.0006				
2	30.18	195.18						195.1775	.0005				
3	30.20	205.65						205.6506	.0005				
4			.0000	.0000	30.0323	.0000	INF.	.0000	.0000				
5			.0000	.0000	30.0898	.0000	INF.	.0000	.0000				
6			.0000	.0000	30.0985	.0000	INF.	.0000	.0000				
7								.0000	.0000				
8								.0000	.0003				
9								.0000	.0002				
10								.0000	.0005				
11								.0000	.0016				
12								.0000	.0002				
13			10.2538	.0000	28.4669	.3602	83.2735	.0000	.0009				
14			14.6430	.0000	28.5662	.5196	57.8343	.3602	4.2424				
15			12.0147	.0000	28.5258	.4212	71.5631	.5196	2.8571				
16								.4212	3.6364				
17								16.7447	.0016				
18								48.5088	.0014				
19								7.3101	.0015				
20			130.5604	.0000	28.5123	4.5591	6.5508	4.5791	.3238				
21			144.8791	.0000	28.5710	5.0709	5.9262	5.0709	.2918				
22			243.7267	.0000	28.5769	8.5288	3.5242	8.5288	.1736				
23			16.7027	.0000	28.5034	.5860	51.1871	.5860	2.5455				
24			13.0770	.0000	28.5721	.4577	65.6578	.4577	3.2308				
25								6.5943	.0317				
26								7.8246	.0312				
27								.0000	.3900				
28								.0000	.3900				
29			403.8681	.0000	29.0507	13.9022	2.1445	6.0777	.0058				
30			15.0380	.0000	29.1126	.5165	57.7847	13.9022	.0549				
31								.5165	1.4247				
32								10.1777	.0183				
33								11.8524	.0206				
34								11.5834	.0195				
35			64.7883	.0000	29.0248	2.2322	13.3525	2.2322	.3496				
36			97.8081	.0000	29.0363	3.3685	8.8488	3.3685	.2288				
37			55.6772	.0000	29.0544	1.9163	15.5672	1.9163	.4056				
38								5.5741	.0074	.2000	.0009		
39								2.6853	.0126	.2000	.0016		
40								5.2409	.0091	.2000	.0008		
41								5.7986	.0074	.2000	.0009		
42								4.4260	.0126	.2000	.0016		
43													

Figure 6.2-21. - Continued

[illegible]

Figure 6.2-21. - Continued

161	73												
162	74	458.0468	.0000	28.6345	15.9964	1.0545	15.9964	.0644					
163	75	35.8887	.0000	28.5997	1.2549	23.6478	1.2549	.8568					
164	76	24.8150	.0000	28.4467	.8723	33.6030	.8723	.9929	.3500	.0002			
165	77	7.6650	.0000	28.4490	.2694	108.8046	.2694	3.2146	.3500	.0003			
166		22.1200	.0000	28.4588	.7773	37.7282	.7773	1.1139	.3500	.0003			
167							.0000	.0000	1.0500	REVERSED			
168							.0000	.0000	1.0500	REVERSED			
169							2.0527	.0000	1.0500	.0002			
170							2.5652	.0000	1.0500	.0002			
171							1.3278	.0000	1.0500	.0003			
172	78	72.0490	.0000	28.0857	2.5653	11.1543	.0000	.0000	1.0500	REVERSED			
173	79	37.2869	.0000	28.0962	1.3271	24.5686	2.5653	.2062					
174	80	57.6564	.0000	28.0956	2.0522	13.9485	1.3271	.3980					
175	81	.0000	.0000	28.0130	.0000	INF.	2.0522	.2577					
176	82	.0000	.0000	28.0152	.0000	INF.	.0000	.0000	1.6500	.0005			
177	83	.0000	.0000	28.0248	.0000	INF.	.0000	.0000	1.6500	.0005			
178							.0000	.0000	1.6500	.0005			
179							8.4939	.0011					
180							6.0751	.0010					
181	84						6.8267	.0011					
182	85	226.4750	.0000	27.9720	8.0965	3.5044	8.0965	.0494	1.3000	.0001			
183	86	169.8525	.0000	27.9725	6.0722	4.6727	6.0722	.0659	1.3000	.0001			
184		190.6148	.0000	27.9713	6.8147	4.1634	6.8147	.0587	1.3000	.0001			
185							.0002	.0000	1.3000	.0028			
186							.0100	.0000	1.3000	.0021			
187							.0000	.0000	1.3000	REVERSED			
188	88	.0000	.0000	28.3733	.0000	INF.	.0000	.0000	1.3000	.0021			
189	89	11.3344	.0000	27.9726	.4052	70.0212	.0000	.0000	1.3000	.0000			
190							.0052	.9863					
191							.0000	.0000	1.3000	REVERSED			
192							.0001	.0000	1.3000	.0013			
193							.0000	.0000	1.3000	REVERSED			
194	87	.0000	.0000	28.3733	.0000	INF.	.0000	.0000					
195							.0001	.0217	.3800	.0020			
196							.0000	.0410	.3800	.0021			
197							.0001	.0217	.3900	.0025			
198							.0000	.0410	.3900	.0024			
199							.0001	.0217	.3900	.0022			
200							.0000	.0410	.3900	.0021			
201							.0001	.0217	.3900	.0023			
202							.0000	.0410	.3900	.0021			
203							.0000	.0000	1.0500	.0053			
204							.0000	.1460	1.0500	.0053			
205							.0000	.0000	1.0500	.0053			
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053			
207							.0000	.1340					
208							.0000	.1310	.2000	.0023			
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023			
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.0000					
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340					
212							.0000	.1340					
213							.0000	.1310	.2000	.0023			
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023			
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.0000					
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.1340					
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370					

Figure 6.2-21. - Continued

[illegible]

NODE	1	TO	10	29.0000	30.0323	30.0898	30.0985	29.9950	30.0509	30.0574	29.0000	29.0000	29.0000
NODE	11	TO	20	29.8485	29.8134	29.8050	29.8069	29.8315	29.5586	29.5689	29.5795	29.3628	29.3633
NODE	21	TO	30	29.3648	28.3121	28.3327	28.3114	28.3093	29.3557	29.3423	29.3363	28.0000	28.0423
NODE	31	TO	40	28.0557	28.8125	28.7988	28.7886	29.6822	29.9804	30.0467	28.9236	28.9960	28.9967
NODE	41	TO	50	28.9182	27.0000	27.0000	27.0000	29.6822	29.6796	29.6799	28.6295	28.6283	28.6233
NODE	51	TO	60	27.3322	27.3299	27.3322	29.6630	29.6652	29.6788	28.6166	28.6244	28.6244	29.6733
NODE	61	TO	70	29.6733	29.6723	28.3733	28.3733	28.3723	29.2830	29.0000	29.2752	29.2730	29.0000
NODE	71	TO	80	29.2752	29.0000	29.0000	30.0985	30.0985	30.0985	30.0985	29.0000	29.0000	29.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	166.53	195.18	205.65
VOLTAGE	30.14	30.18	30.20
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

	CRYOGEN USAGE		CONSUMED H2O PROD	
	LOADED (LBS)	REMAINING (LBS)	(LBS)	(LBS)
O2	3124.00	2709.01	414.99	466.97
H2	368.00	315.44	52.56	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PMR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE PMR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-21. - Concluded

1A	502.4500	-.7070	6.1802	526.8038	-.9541	4.5792	.7650	-.7409	656.7974
1B	459.1900	-.6896	5.7899	479.2391	-.9582	4.1673	.7650	-.7198	600.2484
1C	319.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	-.6243	417.2549
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650									
2A	295.7200	-.7136	3.6036	300.7306	-.9833	2.6150	.7650	-.7257	386.5621
2B	319.6350	-.7256	3.8303	322.3711	-.9915	2.8032	.7650	-.7319	417.8235
2C	197.0000	-.6325	2.7085	222.6408	-.8848	1.9360	.7650	-.7148	257.5163
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	424.6000	-.6945	5.3164	435.9745	-.9759	3.7813	.7650	-.7116	555.0327
3B	461.1260	-.7115	5.6357	474.1603	-.9725	4.1231	.7650	-.7316	602.1761
3C	411.8000	-.6913	5.1802	420.5765	-.9791	3.6572	.7650	-.7060	538.3007
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7650									
ACCUMULATED WATT-HRS OF SOURCES 592170.79 AND LOADS 557576.69 556170.23									

Figure 6.2-22.- Circuit solution at 1 day 8 hours 30 minutes MET

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 32.5000 TIME STEP .16625 NEXT INPUT TIME 33.3333													
TOTAL SOURCE POWER 17792.3733 TOTAL DC/AC LOAD 16768.5571 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 7													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	

1	1	1						187.5726	.0006				
2	2	1						196.0029	.0005				
3	3	1						206.2663	.0005				
4	1	1			30.0205	.0000	INF.	.0000	.0000				
5	2	1			30.0808	.0000	INF.	.0000	.0000				
6	3	1			30.0928	.0000	INF.	.0000	.0000				
7		0						.0000	.0003				
8		0						.0000	.0002				
9		0						.0000	.0005				
10		0						.0000	.0016				
11		0						.0000	.0002				
12		0						.0000	.0009				
13	4	1	10.2451	.0000	28.4555	.3600	83.2767	.3600	4.2424				
14	5	1	14.8406	.0000	28.5568	.5197	57.8071	.5197	2.8571				
15	6	1	12.0099	.0000	28.5202	.4211	71.3644	.4211	3.8364				
16								16.7143	.0016				
17								48.5078	.0014				
18								7.3389	.0015				
19			27.1610	.0000	28.4773	.9538	31.4361	.9538	1.5786				
20	8	1	38.6614	.0000	28.5457	1.3544	22.1813	1.3544	1.1045				
21	9	1	33.8475	.0000	28.5301	1.1864	25.3305	1.1864	1.2824				
22	10	1	16.6977	.0000	28.4912	.5861	51.1597	.5861	2.5455				
23	11	1	13.0758	.0000	28.5626	.4578	65.6226	.4578	3.2308				
24								6.5938	.0317				
25								7.8232	.0312				
26								.0000	.3900				
27								.0000	.3900				
28								6.0771	.0058				
29	12	1	403.7527	.0000	29.0450	13.9010	2.1443	13.9010	.0549				
30	15	1	15.0364	.0000	29.1067	.5166	57.7678	.5166	1.4247				
31								10.0272	.0183				
32								11.6114	.0206				
33								11.5055	.0195				
34								2.2317	.3496				
35	16	1	64.7631	.0000	29.0193	2.2317	13.3525	2.2317	.2288				
36	17	1	27.7844	.0000	29.0322	3.3681	8.8484	3.3681	.4056				
37	18	1	55.6616	.0000	29.0501	1.9161	15.5670	1.9161	.0074	.2000	.0009		
38								2.5521	.0126	.2000	.0016		
39								5.3077	.0091	.2000	.0008		
40								5.6911	.0074	.2000	.0009		
41								4.2817	.0126	.2000	.0016		
42													
43													

Figure 6.2-22. - Continued

[illegible]

Figure 6.2-22. - Continued

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Figure 6.2-22. - Continued

161	73	1	458.0179	.0000	28.6242	16.0011	1.8533	16.0011	.0644		
162	74	1	35.8637	.0000	28.5901	1.2544	23.6465	1.2544	.8568		
163	75	1	24.8190	.0000	28.4363	.8727	33.5791	.8727	.9929	.3500	.0002
164	76	1	7.6650	.0000	28.4387	.2695	108.7204	.2695	3.2146	.3500	.0003
165	77	1	22.1210	.0000	28.4485	.7775	37.7018	.7775	1.1139	.3500	.0003
166		1							.0000	1.0500	REVERSED
167		1							.0000	1.0500	REVERSED
168		1							.0000	1.0500	.0002
169		1							.0000	1.0500	.0002
170		1							.0000	1.0500	.0003
171		1							.0000	1.0500	REVERSED
172	78	1	72.0414	.0000	28.0736	2.5660	11.1476	2.5660	.2062		
173	79	1	31.2867	.0000	28.0860	1.3276	21.5537	1.3276	.3982		
174	80	1	57.6488	.0000	28.0855	2.0526	13.9405	2.0526	.2577		
175	81	1	.0000	.0000	28.0029	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	28.0052	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	28.0149	.0000	INF.	.0000	.0000	1.6500	.0005
178		1							.0011		
179		1							.0010		
180		1							.0011		
181	84	1	226.4253	.0000	27.9819	8.0976	3.5026	8.0976	.0494	1.3000	.0001
182	85	1	169.8036	.0000	27.9625	6.0726	4.6707	6.0726	.0559	1.3000	.0001
183	86	1	190.5534	.0000	27.9813	6.8150	4.1618	6.8150	.0587	1.3000	.0001
184	87	1							.0000	1.3000	.0028
185		1							.0000	1.3000	.0021
186		1							.0000	1.3000	REVERSED
187		1							.0000	1.3000	.0021
188	88	1	.0000	.0000	28.3633	.0000	INF.	.0000	.0000		
189	89	1	11.3269	.0000	27.9627	.4051	70.0178	.4051	.9863		
190		1							.0000	1.3000	REVERSED
191		1							.0000	1.3000	REVERSED
192		1							.0000		
193	47	1	.0000	.0000	28.3633	.0000	INF.	.0000	.0217	.3800	.0020
194		1							.0000	.0410	.0021
195		1							.0000	.0410	.0025
196		1							.0000	.0410	.0024
197		1							.0000	.0217	.0022
198		1							.0000	.0410	.0021
199		1							.0000	.0217	.0023
200		1							.0000	.0410	.0021
201		1							.0000	.0000	.0053
202		1							.0000	.0000	.0053
203		1							.0000	.0000	.0053
204		1							.0000	.0000	.0053
205		1							.0000	.0000	.0053
206		1							.0000	.0000	.0053
207		1							.0000	.0000	.0053
208		1							.0000	.0000	.0053
209		1							.0000	.0000	.0053
210		1							.0000	.0000	.0053
211		1							.0000	.0000	.0053
212		1							.0000	.0000	.0053
213		1							.0000	.0000	.0053
214		1							.0000	.0000	.0053
215		1							.0000	.0000	.0053
216		1							.0000	.0000	.0053
217		1							.0000	.0000	.0053

Figure 6.2-22. - Concluded

1A	502.4500	-.7070	6.1802	526.6038	-.9541	4.5792	.7650	.7409	656.7971
1B	459.1900	-.6896	5.7899	479.2391	-.9582	4.1673	.7650	.7198	600.2481
1C	319.2000	-.6099	4.5507	326.7240	-.9770	2.8411	.7650	.6243	417.2541
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7650									
2A	295.7200	-.7136	3.6036	300.7306	.9833	2.6150	.7650	.7257	386.5621
2B	319.6350	-.7256	3.8303	322.3711	.9915	2.8032	.7650	.7319	417.8231
2C	198.0000	-.6325	2.7085	222.6408	.8848	1.9360	.7650	.7148	257.5161
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	627.6000	-.8189	6.6645	634.7334	-.9888	5.5194	.7644	.8282	821.0261
3B	861.1250	-.7115	5.8351	874.1603	-.9725	4.1231	.7650	.7316	602.7751
3C	614.8000	-.8192	6.5263	620.7128	-.9905	5.3975	.7650	.8270	803.6791
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7648									
ACCUMULATED WATT-HRS OF SOURCES 605742.12 AND LOADS 570363.27 568922.49									

Figure 6.2-23.-Circuit solution at 1 day 23 hours 15 minutes MET

DC DISTRIBUTION NETWORK STATUS														

MISSION ELAPSED TIME 47.25000 TIME STEP .15000 NEXT INPUT TIME 47.33333														
TOTAL SOURCE POWER 17382.7676 TOTAL DC/AC LOAD 16400.1189 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6														
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PP	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT
1	1	1	30.17	183.75						183.7520	.0006			
2	2	1	30.22	191.139						191.3930	.0005			
3	3	1	30.22	200.21						200.2105	.0005			
4	4	1			.0000	.0000	30.0639	.0000	INF.	.0000	.0000			
5	5	1			.0000	.0000	30.1309	.0000	INF.	.0000	.0000			
6	6	1			.0000	.0000	30.1490	.0000	INF.	.0000	.0000			
7	7	1								.0000	.0000			
8	8	1								.0000	.0000			
9	9	1								.0000	.0000			
10	10	1								.0000	.0000			
11	11	1								.0000	.0000			
12	12	1								.0000	.0000			
13	13	1								.0000	.0000			
14	14	1								.0000	.0000			
15	15	1			120.5177	.0000	28.4972	4.2291	7.1001	4.2291	.3618			
16	16	1			45.8515	.0000	28.5747	1.6046	18.7538	1.6046	.9459			
17	17	1			58.5667	.0000	28.5745	2.0496	14.6901	2.0496	.7487			
18	18	1								16.6591	.0016			
19	19	1								48.5124	.0014			
20	20	1								7.4148	.0015			
21	21	1			27.2118	.0000	28.5210	.9341	31.4718	.9341	1.5786			
22	22	1			38.7211	.0000	28.5971	1.3540	22.2246	1.3540	1.1045			
23	23	1			33.9618	.0000	28.5855	1.1881	25.3426	1.1881	1.2824			
24	24	1			16.7158	.0000	28.5360	.5858	51.2602	.5858	2.5455			
25	25	1			13.0829	.0000	28.6155	.4572	65.8199	.4572	3.2308			
26	26	1								6.5990	.0317			
27	27	1								7.8303	.0312			
28	28	1								.0000	.3900			
29	29	1								.0000	.3900			
30	30	1								6.0827	.0058			
31	31	1			404.8884	.0000	29.1016	13.9129	2.1466	13.9129	.0549			
32	32	1			15.0520	.0000	29.1547	.5161	57.9343	.5161	1.4247			
33	33	1								8.4636	.0183			
34	34	1								9.9192	.0206			
35	35	1								9.9444	.0195			
36	36	1			65.0864	.0000	29.0900	2.2375	13.3508	2.2375	.3496			
37	37	1			98.2731	.0000	29.1164	3.3752	8.8554	3.3752	.2288			
38	38	1			55.9767	.0000	29.1360	1.9213	15.5703	1.9213	.4056			

Figure 6.2-23. - Continued

[illegible]

Figure 6.2-23. - Continued

[illegible]

Figure 6.2-23. - Continued

161	73	458.0881	.0000	28.6491	15.9896	1.8562	15.9896	.0644		
162	74	38.9237	.0000	28.6130	1.2555	23.6468	1.2555	.8568		
163	75	24.8130	.0000	28.4813	.8719	33.6365	.8719	.9929	.3500	.0002
164	76	7.6650	.0000	28.4637	.2693	108.9135	.2693	3.2146	.3500	.0003
165	77	22.1200	.0000	28.4731	.7769	37.7650	.7769	1.1339	.3500	.0003
166							-.0000	.0000	1.0500	REVERSED
167							-.0000	.0000	1.0500	REVERSED
168							2.0489	.0000	1.0500	.0002
169							2.5652	.0000	1.0500	.0002
170							1.3289	.0000	1.0500	.0003
171							-.0000	.0000	1.0500	REVERSED
172	78	72.0598	.0000	28.1001	2.5644	11.1639	2.5644	.2062		
173	79	37.2872	.0000	28.1103	1.3265	21.5900	1.3265	.3980		
174	80	57.6669	.0000	28.1096	2.0515	13.9597	2.0515	.2577		
175	81	.0000	.0000	28.0272	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	28.0294	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	28.0387	.0000	INF.	.0000	.0000	1.6500	.0005
178							8.5023	.0011		
179							6.0746	.0011		
180							6.8155	.0011		
181	84	226.5446	.0000	27.9863	8.0949	3.5068	8.0949	.0494	1.3000	.0001
182	85	169.9229	.0000	27.9867	6.0716	4.6755	6.0716	.0659	1.3000	.0001
183	86	190.6972	.0000	27.9852	6.8142	4.1637	6.8142	.0587	1.3000	.0001
184							-.0000	.0000	1.3000	.0028
185							-.0000	.0000	1.3000	REVERSED
186							-.0000	.0000	1.3000	REVERSED
187							.0055	.0000	1.3000	.0021
188	88	.0000	.0000	28.3875	.0000	INF.	.0000	.0000		
189	89	11.3449	.0000	27.9866	.4054	70.0261	.4054	.9863		
190							-.0000	.0000	1.3000	REVERSED
191							-.0000	.0000	1.3000	.0013
192							-.0000	.0000	1.3000	REVERSED
193	87	.0000	.0000	28.3875	.0000	INF.	.0000	.0000		
194							.0001	.0217	.3800	.0020
195							.0000	.0410	.3800	.0021
196							.0001	.0217	.3900	.0025
197							.0000	.0410	.3900	.0024
198							.0001	.0217	.3900	.0022
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0023
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207							.0000	.1310	.2000	.0023
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212							.0000	.1310	.2000	.0023
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.1310		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-23. - Continued

[illegible]

2961	NODE	1	TO	10	29.40000	30.06639	30.1309	30.1490	30.0271	30.0926	30.1090	29.0000	29.0000	29.0000
	NODE	11	TO	20	29.90000	29.86649	29.8721	29.8886	29.9151	29.6347	29.6874	29.6549	29.4146	29.4164
	NODE	21	TO	30	29.4174	28.3645	28.3635	28.3636	28.3618	29.4075	29.3953	29.3888	29.0000	28.0953
	NODE	31	TO	40	28.1075	28.8597	28.8580	28.8580	30.0005	30.0223	30.0942	29.9654	29.0475	28.0962
	NODE	41	TO	50	28.9505	27.0030	27.0000	27.0000	29.6964	29.6938	29.6937	28.6434	28.6424	28.6433
	NODE	51	TO	60	27.3464	27.3464	27.3464	27.3464	29.6772	29.6794	29.6887	28.6383	28.6383	29.6872
	NODE	61	TO	70	29.6875	29.6875	28.3875	28.3875	28.3864	29.2972	29.2972	29.2894	29.2872	29.0000
	NODE	71	TO	80	29.2894	29.0000	30.0000	30.1490	30.1490	30.1490	30.1490	29.0000	29.0000	29.0000

	FUEL	CELL	FUEL	CELL	FUEL	CELL
SOURCE	1	1	2	2	3	3
SWITCH CON						
CURRENT	163.75		191.39		200.21	
VOLTAGE	30.17		30.22		30.25	
PARASITIC	.0000		.0000		.0000	
TEMP	180.0000		180.0000		180.0000	
SDC						
AH REMAIN						

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	2528.02	595.98	670.59
H2	36F.00	292.50	75.50	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE PWR. FAC.	INVERTER CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-23. - Concluded

1A	519.4167	-.6850	6.5938	559.3123	-.9287	4.8636	.7647	.7376	679.2409
1B	525.8567	-.6871	6.6549	566.6218	-.9281	4.9271	.7644	.7404	687.8899
1C	385.8667	-.6198	5.4137	411.7138	-.9372	3.5801	.7650	.6613	504.4009
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7647									
2A	295.7200	-.7136	3.6036	300.7306	-.9833	2.6150	.7650	.7257	386.5621
2B	319.6350	-.7256	3.8303	322.3711	-.9915	2.8032	.7650	.7319	417.8235
2C	197.0000	-.6325	2.7085	222.6408	-.8848	1.9360	.7650	.7148	257.5163
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	424.6000	-.6945	5.3164	435.0745	-.9759	3.7833	.7650	.7116	555.0327
3B	461.1260	-.7115	5.6357	474.1603	-.9725	4.1231	.7650	.7316	602.7761
3C	411.8000	-.6913	5.1802	420.5765	-.9791	3.6572	.7650	.7060	538.3007
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7650									
ACCUMULATED WATT-HRS OF SOURCES 852433.88 AND LOADS 803373.16 801255.83									

DC DISTRIBUTION NETWORK STATUS														

MISSION ELAPSED TIME 48.01778 TIME STEP .01639 NEXT INPUT TIME 48.25000														
TOTAL SOURCE POWER 20943.6411 TOTAL DC/AC LOAD 19666.0354 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6														
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT

1	1	1	29.75	224.74						224.7431	.0006			
2	2	2	29.82	231.78						231.7771	.0005			
3	3	3	29.84	246.14						246.1372	.0005			
4	4	4			.0000	.0000	29.6282	.0000	INF.	.0000	.0000			
5	5	5			.0000	.0000	29.7113	.0000	INF.	.0000	.0000			
6	6	6			.0000	.0000	29.7222	.0000	INF.	.0000	.0000			
7	7	7								.0000	.0003			
8	8	8								.0000	.0002			
9	9	9								.0000	.0005			
10	10	10								.0000	.0016			
11	11	11								.0000	.0002			
12	12	12								.0000	.0009			
13	13	13			6.6396	.0000	28.0784	.2365	125.1052	.2365	6.3636			
14	14	14			11.4000	.0000	28.1742	.4046	73.3145	.4046	3.6842			
15	15	15			6.6823	.0000	28.1630	.2373	125.0579	.2373	6.3636			
16	16	16								16.5057	.0016			
17	17	17								48.5419	.0014			
18	18	18								9.1035	.0015			
19	19	19			129.8495	.0000	28.0862	4.6233	6.3988	4.6233	.3238			
20	20	20			144.2119	.0000	28.1711	5.1192	5.7949	5.1192	.2918			
21	21	21			242.5029	.0000	28.1791	8.6058	3.4480	8.6058	.1736			
22	22	22			16.5341	.0000	28.0847	.5887	50.2499	.5887	2.5455			
23	23	23			13.0231	.0000	28.1714	.4623	64.1708	.4623	.3238			
24	24	24								6.5592	.0317			
25	25	25								7.7818	.0312			
26	26	26								.0000	.3900			
27	27	27								.0000	.3900			
28	28	28								6.0392	.0058			
29	29	29			396.2761	.0000	28.6721	13.8210	2.1294	13.8210	.0549			
30	30	30			14.9341	.0000	28.7245	.5199	56.6740	.5199	1.4242			
31	31	31								18.2210	.0183			
32	32	32								20.5118	.0206			

DC DISTRIBUTION NETWORK STATUS														

MISSION ELAPSED TIME 48.01778 TIME STEP .01639 NEXT INPUT TIME 48.25000														
TOTAL SOURCE POWER 20943.6411 TOTAL DC/AC LOAD 19666.0354 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6														
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT		

1	1	1	29.75	224.74						224.7431	.0006			
2	2	2	29.82	231.78						231.7771	.0005			
3	3	3	29.84	246.14						246.1372	.0005			
4	4	4			.0000	.0000	29.6282	.0000	INF.	.0000	.0000			
5	5	5			.0000	.0000	29.7113	.0000	INF.	.0000	.0000			
6	6	6			.0000	.0000	29.7222	.0000	INF.	.0000	.0000			
7	7	7								.0000	.0003			
8	8	8								.0000	.0002			
9	9	9								.0000	.0005			
10	10	10								.0000	.0016			
11	11	11								.0000	.0002			
12	12	12			6.6396	.0000	28.0784	.2365	125.1052	.2365	6.3636			
13	13	13			11.4000	.0000	28.1742	.4046	73.3145	.4046	3.6842			
14	14	14			6.6823	.0000	28.1630	.2373	125.0579	.2373	6.3636			
15	15	15								16.5057	.0016			
16	16	16								48.5419	.0014			
17	17	17								9.1035	.0015			
18	18	18			129.8495	.0000	28.0862	4.6233	6.3988	4.6233	.3238			
19	19	19			144.2119	.0000	28.1711	5.1192	5.7949	5.1192	.2918			
20	20	20			242.5029	.0000	28.1791	8.6058	3.4480	8.6058	.1736			
21	21	21			16.5341	.0000	28.0847	.5887	50.2499	.5887	2.5455			
22	22	22			13.0231	.0000	28.1714	.4623	64.1708	.4623	.3238			
23	23	23								6.5592	.0317			
24	24	24								7.7818	.0312			
25	25	25								.0000	.3900			
26	26	26								.0000	.3900			
27	27	27								6.0592	.0058			
28	28	28			396.2761	.0000	28.6721	13.8210	2.1294	13.8210	.0549			
29	29	29			14.9341	.0000	28.7245	.5199	56.6740	.5199	1.4242			
30	30	30								18.2210	.0183			
31	31	31								20.5118	.0206			
32	32	32								18.6698	.0195			
33	33	33			342.9773	.0000	28.4918	12.0378	2.4298	12.0378	.0630			
34	34	34			394.8592	.0000	28.4842	13.8624	2.1095	13.8624	.0547			
35	35	35			275.3684	.0000	28.5575	9.6426	3.0395	9.6426	.0779			
36	36	36								6.1832	.0074	.2000	.0009	
37	37	37								1.2735	.0126	.2000	.0016	
38	38	38								3.0875	.0091	.2000	.0008	
39	39	39								5.3757	.0074	.2000	.0009	
40	40	40								5.9397	.0126	.2000	.0016	
41	41	41												
42	42	42												
43	43	43												

Figure 6.2-24. - Continued

44	19	327.7521	.0000	28.3548	11.5590	2.5087	11.5590	.0091	.2000	REVERSED
45	20	204.7179	.0036	28.3813	7.2131	4.0239	7.2131	.0892		
46	21	87.8000	.0000	28.4383	3.0874	9.4184	3.0874	.0073		
47							126.9430	.0057		
48							113.5204	.0071		
49							167.7267	.0044		
50	22	419.8266	.0000	27.5766	15.2240	1.8728	15.2240	.0612	.3500	.0002
51	23	366.5619	.0000	27.5756	13.2930	2.1449	13.2930	.0702	.3500	.0002
52	24	414.9840	.0000	27.5745	15.0496	1.8946	15.0496	.0622	.3500	.0002
53	25	2051.4563	.0000	28.5117	71.9513	.4011	71.9513	.0049		
54	26	1354.2353	.0000	28.6321	47.2978	.6103	47.2978	.0049		
55	27	2471.4991	.0000	28.4408	86.9000	.3321	86.9000	.0049		
56							2.8642	.0000	1.0500	.0002
57							4.8852	.0000	1.0500	.0002
58							5.9923	.0000	1.0500	.0005
59							6.2861	.0000	1.0500	.0002
60							8.6739	.0000	1.0500	.0002
61							3.2207	.0000	1.0500	.0005
62	28	249.0527	.0000	27.2190	9.1500	3.0394	9.1500	.0646		
63	29	368.8604	.0000	27.2224	13.5499	2.0525	13.5499	.0434		
64	30	250.7357	.0000	27.2180	9.2121	3.0188	9.2121	.0642		
65							39.2975	.0000	1.0500	.0001
66							32.7648	.0000	1.0500	.0001
67							46.8749	.0000	1.0500	.0001
68	31	3236.9162	.0000	27.2109	118.9568	.2338	118.9568	.0050		
69							2.8778	.0079		
70							2.8431	.0085		
71							4.2138	.0067		
72	32	23.7226	.0000	27.1161	.8749	31.4955	.8749	.5009	1.3000	.0005
73	33	65.3687	.0000	27.1030	2.4119	11.4189	2.4119	.1837	1.3000	.0003
74	34	114.1630	.0000	27.0940	4.2136	6.5347	4.2136	.1037	1.3000	.0004
75							.0262	.0000	1.3000	.0005
76							.0000	.0000	1.3000	REVERSED
77							.0000	.0000	1.3000	REVERSED
78							.0016	.0000	1.3000	.0005
79	36	.7618	.0000	27.1037	.0281	979.8052	.0281	.5556		
80	37	.0000	.0000	27.5540	.0000	INF.	.0000	.0000		
81							.2526	.2526	1.4000	REVERSED
82							.4999	.1970	1.0500	.0026
83							.5722	.1955	1.0500	.0026
84							.5942	.1900	1.0500	.0026
85							.0000	.2058	1.4000	REVERSED
86							.9903	.1499	1.0500	.0026
87							1.2840	.1372	1.0500	.0026
88							2.2034	.0894	1.0500	.0026
89							.0000	.2221	1.4000	REVERSED
90	38	4.9252	.0000	24.5258	.2008	122.1505	.20			

Figure 6.2-24. - Continued

LINE	DATE	DESCRIPTION	AMOUNT	CHECK NO.	ACCOUNT NO.	REMARKS
104						
105						
106						
107						
108						
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160						

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OF POOR
QUALITY

Figure 6.2-24. - Continued

161	73	1	456.5292	.0000	28.0956	16.2492	1.7935	16.2492	.0644		
162	74	1	34.5620	.0000	28.0945	1.2302	23.6939	1.2302	.8568		
163	75	1	24.8150	.0000	27.9089	.8891	32.3816	.8891	.9929	.3500	.0002
164	76	1	7.6650	.0000	27.9097	.2746	104.8391	.2746	3.2146	.3500	.0003
165	77	1	22.1200	.0000	27.9156	.7924	36.3439	.7924	1.1139	.3500	.0003
166		1						.3536	.0000	1.0500	.0002
167		1						.0000	.0000	1.0500	REVERSED
168		1						4.5423	.0000	1.0500	.0002
169		1						3.1469	.0000	1.0500	.0002
170		1						1.3523	.0000	1.0500	.0003
171		1						.0000	.0000	1.0500	REVERSED
172	78	1	96.5536	.0000	27.5568	3.5038	8.0175	3.5038	.1527		
173	79	1	37.2765	.0000	27.5597	1.3526	20.7738	1.3526	.3980		
174	80	1	125.3076	.0000	27.5625	4.5463	6.1803	4.5463	.1177		
175	81	1	.0000	.0000	27.4919	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.4926	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.4985	.0000	INF.	.0000	.0000	1.6500	.0005
178		1						8.5586	.0011		
179		1						6.0962	.0010		
180		1						6.8314	.0011		
181	84	1	223.9135	.0000	27.4485	8.1576	3.4143	8.1576	.0494	1.3000	.0001
182	85	1	167.2778	.0000	27.4491	6.0941	4.5702	6.0941	.0659	1.3000	.0001
183	86	1	187.4997	.0000	27.4463	6.8315	4.0764	6.8315	.0587	1.3000	.0001
184		1						.0001	.0000	1.3000	.0028
185		1						.0000	.0000	1.3000	REVERSED
186		1						.0000	.0000	1.3000	REVERSED
187		1						.3986	.0000	1.3000	.0021
188	88	1	.0000	.0000	27.8513	.0000	INF.	.0000	.0000		
189	89	1	10.9471	.0000	27.4585	.3987	69.8597	.3987	.9863		
190		1						.0001	.0000	1.3000	.0013
191		1						.0000	.0000	1.3000	REVERSED
192		1						.0000	.0000	1.3000	REVERSED
193	87	1	.0000	.0000	27.8525	.0000	INF.	.0000	.0000		
194		1						.0001	.0000	.3800	.0020
195		1						.0000	.0410	.3800	.0021
196		1						.0001	.0217	.3900	.0025
197		1						.0000	.0410	.3900	.0024
198		1						.0001	.0217	.3900	.0022
199		1						.0000	.0410	.3900	.0021
200		1						.0001	.0217	.3900	.0021
201		1						.0000	.0410	.3900	.0021
202		1						.0000	.0000	1.0500	.0053
203		1						.0000	.0000	1.0500	.0053
204		1						.0000	.0000	1.0500	.0053
205		1						.0000	.1460	1.0500	.0053
206	90	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207		1						.0000	.1310	.2000	.0023
208		1						.0000	.1310	.2000	.0023
209	91	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212		1						.0000	.1310	.2000	.0023
213		1						.0000	.1310	.2000	.0023
214	94	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-24. - Continued

[illegible]

Figure 6.2-24. - Concluded

1A	566.8000	-.7280	6.7705	597.4247	-.9487	5.1950	.7640	.7673	741.9138
1B	517.6000	-.7120	6.3214	543.4017	-.9525	4.7252	.7650	.7675	676.6013
1C	484.2000	-.6822	6.1720	514.5059	-.9411	4.4740	.7650	.7249	632.9412
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2000	-.7367	4.0047	340.9368	-.9951	2.9647	.7650	.7403	443.5033
2B	328.7100	-.7303	3.9140	330.8440	-.9935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	627.6000	-.8189	6.6645	634.7334	-.9888	5.5194	.7644	.8282	821.0263
3B	480.2000	-.7186	5.8104	494.8819	-.9703	4.3033	.7650	.7406	627.7124
3C	774.8000	-.8256	8.1611	796.4945	-.9728	6.9260	.7576	.8487	1022.7604
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7617									
ACCUMULATED WATT-HRS OF SOURCES 867317.15 AND LOADS 817372.34 815220.36									

Figure 6.2-25. - Continued

[illegible]

Figure 6.2-25. - Continued

LINE	DATE	DESCRIPTION	AMOUNT	DEBIT	CREDIT	BALANCE	REMARKS
108							
109							
110	44	681.8477	.0000	27.6672	24.6446	1.1628	
111	45	24.8210	.0000	27.7556	.8943	24.8446	
112	46	25.0036	.0000	27.7866	.9011	31.8794	
113	47	432.5022	.0000	28.0054	15.4436	1.8996	
114	48	624.9615	.0000	28.0316	22.2949	1.4317	
115	49	107.1763	.0000	28.0679	3.8145	7.7151	
116							
117	50		.0000	.0000	28.6359	.0000	INF.
118	51		.0000	.0000	28.6359	.0000	INF.
119	52		.0000	.0000	28.6359	.0000	INF.
120							
121							
122	53		.0000	.0000	.0000	.0000	INF.
123	54		.0000	.0000	.0000	.0000	INF.
124							
125							
126	55		.0000	.0000	.0000	.0000	INF.
127	56		.0000	.0000	.0000	.0000	INF.
128							
129							
130	57		.0000	.0000	.0000	.0000	INF.
131	58		.0000	.0000	.0000	.0000	INF.
132	59		.0000	.0000	.0000	.0000	INF.
133	60	26.3663	.0000	28.3017	.9316	31.5200	
134	61	30.8105	.0000	28.2985	1.0888	26.9873	
135	62	19.5286	.0000	28.2980	.6901	42.5451	
136	63	89.4779	.0000	28.1300	3.1809	9.1215	
137	64	113.9491	.0000	28.1275	4.0512	7.1612	
138	65	93.0798	.0000	28.1252	3.3095	8.7659	
139							
140							
141							
142							
143							
144							
145	66	207.4455	.0000	27.7773	7.4682	3.7908	
146	67	200.5425	.0000	27.7754	7.2202	3.9208	
147	68	258.7443	.0000	27.7766	9.3152	3.0391	
148							
149							
150							
151							
152							
153							
154	69		.0000	.0000	27.0145	.0000	INF.
155	70		.0000	.0000	27.0112	.0000	INF.
156	71		.0000	.0000	27.0145	.0000	INF.
157							
158							
159							
160	72	538.0458	.0000	28.3043	19.0094	1.5437	

Figure 6.2-25. - Continued

161	73	1	457.1199	.0000	28.3053	16.1496	1.8171	16.1496	.0644		
162	74	1	35.0780	.0000	28.2909	1.2399	23.6738	1.2399	.8568		
163	75	1	24.8130	.0000	28.1186	.8825	32.8552	.8825	.9929	.3500	.0002
164	76	1	7.6650	.0000	28.1196	.2726	106.3736	.2726	3.2148	.3500	.0003
165	77	1	22.1200	.0000	28.1270	.7864	36.8795	.7864	1.1139	.3500	.0003
166								.0237	.0000	1.0500	.0002
167								.0000	.0000	1.0500	REVERSED
168								4.5247	.0000	1.0500	.0002
169								3.4607	.0000	1.0500	.0002
170								1.3444	.0000	1.0500	.0003
171								.0000	.0000	1.0500	REVERSED
172	78	1	96.8464	.0000	27.7624	3.4884	8.1112	3.4884	.1527		
173	79	1	37.2804	.0000	27.7685	1.3425	21.0815	1.3425	.3980		
174	80	1	125.6757	.0000	27.7698	4.5256	6.2538	4.5256	.1177		
175	81	1	.0000	.0000	27.6951	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.6959	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.7033	.0000	INF.	.0000	.0000	1.6500	.0005
178								8.5374	.0011		
179								6.0875	.0010		
180								6.8250	.0011		
181	84	1	224.9112	.0000	27.6524	8.1335	3.4493	8.1335	.0494	1.3000	.0001
182	85	1	168.2818	.0000	27.6531	6.0855	4.6101	6.0855	.0659	1.3000	.0001
183	86	1	168.7169	.0000	27.6514	6.18249	4.1104	6.8249	.0587	1.3000	.0001
184								.0000	.0000	1.3000	.0028
185								.0000	.0000	1.3000	REVERSED
186								.0000	.0000	1.3000	REVERSED
187								.4013	.0000	1.3000	.0021
188	88	1	.0000	.0000	28.0548	.0000	INF.	.0000	.0000		
189	89	1	11.0979	.0000	27.6587	.4012	69.9183	.4012	.9863	1.3000	.0013
190								.0000	.0000	1.3000	REVERSED
191								.0000	.0000	1.3000	REVERSED
192								.0000	.0000		
193	87	1	.0000	.0000	28.0553	.0000	INF.	.0001	.0217	.3800	.0020
194								.0000	.0410	.3800	.0021
195								.0001	.0217	.3900	.0025
196								.0000	.0410	.3900	.0024
197								.0001	.0217	.3900	.0022
198								.0000	.0410	.3900	.0021
199								.0001	.0217	.3900	.0023
200								.0000	.0410	.3900	.0021
201								.0000	.0000	1.0500	.0053
202								.0000	.1460	1.0500	.0053
203								.0000	.0000	1.0500	.0053
204								.0000	.1460	1.0500	.0053
205								.0000	.1340		
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
207								.0000	.1310	.2000	.0023
208								.0000	.0000		
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023
212								.0000	.1310	.2000	.0023
213								.0000	.0000		
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-25. - Continued

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Figure 6.2-25. - Concluded

1A	566.8000	-.7280	6.7705	597.4247	-.9487	5.1950	.7640	.7673	741.9138
1B	517.8000	-.7120	6.3214	543.4017	-.9525	4.7252	.7650	.7475	676.6013
1C	479.2000	-.6820	6.1099	508.0851	-.9431	4.4181	.7650	.7231	626.4052
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	239.6000	-.6716	3.1022	252.8172	.9477	2.1984	.7650	.7087	313.2026
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	627.6000	-.8189	6.6645	634.7334	-.9888	5.5194	.7644	.8282	821.0263
3B	480.2000	-.7186	5.8104	494.8819	-.9703	4.3033	.7650	.7406	627.7124
3C	774.8000	-.8256	8.1611	796.4945	-.9728	6.9260	.7576	.8487	1022.7604
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7617									
ACCUMULATED WATT-HRS OF SOURCES 897223.55 AND LOADS 845487.55 843268.88									

Figure 6.2-26. - Continued

[illegible]

Figure 6.2-26. - Continued

104								2.2717	.0000	1.0500	.0007
105								.0000	.0000	1.0500	REVERSED
106								.0000	.0000	1.0500	REVERSED
107								.0000	.0000	1.0500	REVERSED
108								.9026	.0000	1.0500	.0011
109	44	681.1366	.0000	27.4650	24.8002	1.1476	24.8002	.0402	.0000		
110	45	62.6624	.0000	27.5864	2.2715	12.5705	2.2715	.4259	.0000		
111	46	24.8686	.0000	27.5724	.9019	31.6590	.9019	1.0889	.0000		
112	47	429.1132	.0000	27.8103	15.4300	1.8885	15.4300	.0861	.3500	.0000	
113	48	709.2162	.0000	27.8919	25.4730	1.1451	25.4730	.0520	.3500	.0000	
114	49	106.4750	.0000	27.9250	3.8129	7.6728	3.8129	.3488	.3500	.0001	
115								.0000	.0521	1.0500	.0003
116								.0000	.1374	1.0500	.0003
117	50	.0000	.0000	28.4397	.0000	INF.	.0000	.0677			
118	51	.0000	.0000	28.4397	.0000	INF.	.0000	.0691			
119	52	.0000	.0000	28.4397	.0000	INF.	.0000	.0525			
120								.0000	.0000	.3500	.0024
121								.0000	.0000	.3500	.0024
122	53	.0000	.0000	.0000	.0000	INF.	.0000	.0691	.7000	.0015	
123	54	.0000	.0000	.0000	.0000	INF.	.0000	.1063	.7000	.0015	
124								.0000	.0321	.7000	.0004
125								.0000	.0256	.7000	.0004
126	55	.0000	.0000	.0000	.0000	INF.	.0000	.0000			
127	56	.0000	.0000	.0000	.0000	INF.	.0000	.0000			
128								.0000	.0000	.2000	.0004
129								.0000	.0000	.2000	.0004
130	57	.0000	.0000	.0000	.0000	INF.	.0000	.0053			
131	58	.0000	.0000	.0000	.0000	INF.	.0000	.0052			
132	59	.0000	.0000	.0000	.0000	INF.	.0000	.0041			
133	60	25.7886	.0000	28.0088	.9207	31.5610	.9207	1.1408			
134	61	30.1347	.0000	28.0053	1.0760	27.0025	1.0760	.9760			
135	62	19.0969	.0000	28.0025	.6820	42.6010	.6820	1.5398			
136	63	150.0537	.0000	27.8279	5.3922	5.3242	5.3922	.1632	.3500	.0002	
137	64	171.8820	.0000	27.8243	6.1774	4.6469	6.1774	.1425	.3500	.0002	
138	65	165.6144	.0000	27.8198	5.9531	4.8215	5.9531	.1479	.3500	.0004	
139								.7.6503	.0000	1.0500	.0006
140								6.8817	.0000	1.0500	.0006
141								.0224	.0000	1.0500	.0005
142								1.4350	.0000	1.0500	.0006
143								1.9546	.0000	1.0500	.0006
144								12.3091	.0000	1.0500	.0005
145	66	249.5504	.0000	27.4663	9.0857	3.0823	9.0857	.0593			
146	67	242.6453	.0000	27.4630	8.8353	3.1693	8.8353	.0609			
147	68	338.6611	.0000	27.4659	12.3302	2.2711	12.3302	.0435			
148								.0000	.0000	2.3500	REVERSED
149								.0000	.0000	2.3500	REVERSED
150								.0006	.0000	2.3500	.0015
151								.0004	.0000	2.3500	.0015
152								.0001	.0000	2.3500	.0008
153								.0000	.0000	2.3500	REVERSED
154	69	.0000	.0000	26.7092	.0000	INF.	.0000	.0237			
155	70	.0000	.0000	26.7056	.0000	INF.	.0000	.0120			
156	71	.0000	.0000	26.7092	.0000	INF.	.0000	.0238			
157								20.2199	.0010		
158								19.9991	.0008		
159								9.4873	.0009		
160	72	536.9365	.0000	27.9891	19.1838	1.5137	19.1838	.0548			

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ORIGINAL PAGE IS
OF POOR QUALITY

Figure 6.2-26. - Continued

161	73	456.2356	.0000	27.9899	16.3000	1.7816	16.3000	.0644		
162	74	34.3005	.0000	27.9941	1.2253	23.7039	1.2253	.8568		
163	75	24.8130	.0000	27.8031	.8925	32.1441	.8925	.9929	.3500	.0002
164	76	8.8547	.0000	27.8050	.3185	90.0922	.3185	2.7755	.3500	.0003
165	77	22.1200	.0000	27.8075	.7955	36.0718	.7955	1.1139	.3500	.0003
166							.1343	.0000	1.0500	.0002
167							.0000	.0000	1.0500	REVERSED
168							6.0920	.0000	1.0500	.0002
169							3.3749	.0000	1.0500	.0002
170							1.3581	.0000	1.0500	.0003
171							.0000	.0000	1.0500	REVERSED
172	78	96.4062	.0000	27.4532	3.5117	7.9704	3.5117	.1527		
173	79	37.2745	.0000	27.4530	1.3578	20.6175	1.3578	.3980		
174	80	167.3172	.0000	27.4553	6.0942	4.5934	6.0942	.0582		
175	81	.0000	.0000	27.3894	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	27.3903	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	27.3939	.0000	INF.	.0000	.0000	1.6500	.0005
178							15.9529	.0011		
179							10.2186	.0010		
180							11.9927	.0011		
181	84	373.3430	.0000	27.3416	13.6548	2.0317	13.6548	.0292	1.3000	.0001
182	85	279.2697	.0000	27.3460	10.2124	2.7168	10.2124	.0389	1.3000	.0001
183	86	299.3241	.0000	27.3402	10.9481	2.5337	10.9481	.0363	1.3000	.0001
184							.0000	.0000	1.3000	.0028
185							1.0421	.0000	1.3000	.0021
186							.0000	.0000	1.3000	REVERSED
187							2.2956	.0000	1.3000	.0021
188	88	.0000	.0000	27.7449	.0000	INF.	.0000	.0000		
189	89	91.2580	.0000	27.3454	3.3372	8.3114	3.3372	.1174		
190							.0000	.0000	1.3000	REVERSED
191							.0003	.0000	1.3000	.0013
192							.0000	.0000	1.3000	REVERSED
193	87	.0000	.0000	27.7449	.0000	INF.	.0000	.0000		
194							.0003	.0217	.3800	.0020
195							.0000	.0410	.3800	.0021
196							.0001	.0217	.3900	.0025
197							.0000	.0410	.3900	.0024
198							.0000	.0217	.3900	.0022
199							.0000	.0410	.3900	.0021
200							.0001	.0217	.3900	.0023
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023
207							.0000	.1310	.2000	.0023
208							.0000	.0000		
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
212							.0000	.1310	.2000	.0023
213							.0000	.0000		
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-26. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9973	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	239.6000	-.6716	3.1022	252.8172	.9977	2.1984	.7650	.7087	313.2026
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7123	559.3900
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 966133.64 AND LOADS 910157.02 907790.62									

Figure 6.2-27.- Circuit solution at 2 days 5 hours 11 minutes 4 seconds (Deorbit TIG-20 minutes)

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 53.18444 TIME STEP .16667 NEXT INPUT TIME 53.20000													
TOTAL SOURCE POWER 22466.5740 TOTAL DC/AC LOAD 21044.0337 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 7													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC			
										VOLTAGE	RESISTANCE	SHUNT	

1	29.56	244.55						244.5544	.0006				
2	29.54	249.64						249.6372	.0005				
3	29.70	263.88						263.8762	.0005				
4			.0000	.0000	29.4270	.0000	INF.	.0000	.0000				
5			.0000	.0000	29.5280	.0000	INF.	.0000	.0000				
6			.0000	.0000	29.5684	.0000	INF.	.0000	.0000				
7								.0000	.0003				
8								.0000	.0002				
9								.0000	.0005				
10								.0000	.0016				
11								.0000	.0002				
12								.0000	.0009				
13			6.5490	.0000	27.8835	.2349	125.0824	.2349	6.3636				
14			11.4000	.0000	27.9768	.4075	72.3422	.4075	3.6842				
15			6.6074	.0000	28.0147	.2359	125.1126	.2359	6.3636				
16								31.0595	.0016				
17								59.4733	.0014				
18								10.8534	.0015				
19			129.5228	.0000	27.8734	4.6468	6.3222	4.6468	.3238				
20			143.8935	.0000	27.9772	5.1432	5.7314	5.1432	.2918				
21			242.0018	.0000	28.0162	8.6379	3.4170	8.6379	.1736				
22			169.1376	.0000	27.8828	6.0660	4.8431	6.0660	.2465				
23			108.8626	.0000	27.9788	3.8909	7.5762	3.8909	.3853				
24								8.9962	.0317				
25								10.7085	.0312				
26								.0000	.3900				
27								.0000	.3900				
28								8.4740	.0058				
29			545.2514	.0000	28.4244	19.1825	1.5213	19.1825	.0395				
30			14.8704	.0000	28.4870	.5220	55.9966	.5220	1.4247				
31								17.4521	.0183				
32								20.1916	.0206				
33								19.1677	.0195				
34								11.8823	.0635				
35			336.3135	.0000	28.3038	11.8823	2.4455	11.8823	.0567				
36			376.9599	.0000	28.3072	13.3168	2.1824	13.3168	.0779				
37			273.6091	.0000	28.3909	9.6372	3.0239	9.6372	.0074	.2000	.0009		
38								5.5699	.0126	.2000	.0016		
39								.8225	.0091	.2000	.0008		
40								3.1060	.0074	.2000	.0009		
41								6.0527	.0126	.2000	.0016		
42								6.4243					

Figure 6.2-27. - Continued

104						2.2646	.0000	1.0500	REVERSED	.0007
105						.0000	.0000	1.0500	REVERSED	.0000
106						.0000	.0000	1.0500	REVERSED	.0000
107						.0000	.0000	1.0500	REVERSED	.0000
108						.0000	.0000	1.0500	REVERSED	.0000
109						.0000	.0000	1.0500	REVERSED	.0000
110	44	680.6774	.0000	27.3344	24.9018	1.1379	24.9018	.0000		
111	45	62.4243	.0000	27.4839	2.2646	1.0024	2.2646	.0000		
112	46	62.4243	.0000	27.4839	2.2646	1.0024	2.2646	.0000		
113	47	62.4243	.0000	27.4839	2.2646	1.0024	2.2646	.0000		
114	48	62.4243	.0000	27.4839	2.2646	1.0024	2.2646	.0000		
115	49	62.4243	.0000	27.4839	2.2646	1.0024	2.2646	.0000		
116		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
117		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
118		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
119		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
120		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
121		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
122		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
123		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
124		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
125		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
126		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
127		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
128		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
129		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
130		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
131		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
132		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
133		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
134		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
135		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
136		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
137		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
138		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
139		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
140		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
141		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
142		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
143		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
144		837.9133	.0000	27.6555	30.2982	.0000	30.2982	.0000		
145	66	249.3442	.0000	27.3368	9.1212	3.0563	9.1212	.0000		
146	67	242.4397	.0000	27.3368	8.8666	3.1427	8.8666	.0000		
147	68	338.1205	.0000	27.3369	12.3686	2.2537	12.3686	.0000		
148								.0000		
149								.0000		
150								.0000		
151								.0000		
152								.0000		
153								.0000		
154	69		.0000	26.5815	.0000	INF.		.0000		
155	70		.0000	26.5785	.0000	INF.		.0000		
156	71		.0000	26.5815	.0000	INF.		.0000		
157								.0000		
158								.0000		
159								.0000		
160	72	536.5352	.0000	27.8573	19.2601	1.5011	19.2601	.0000		

Figure 6.2-27. - Continued

161	73	1	455.9146	.0000	27.8584	16.3654	1.7667	16.3654	.0644		
162	74	1	34.0206	.0000	27.8711	1.2206	23.6899	1.2206	.8568		
163	75	1	24.8130	.0000	27.6712	.8968	31.8493	.8968	.9929	.3500	.0002
164	76	1	8.8477	.0000	27.6743	.3197	89.3406	.3197	2.7795	.3500	.0003
165	77	1	22.1260	.0000	27.6764	.7992	35.7427	.7992	1.1139	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								.0000	.0000	1.0500	REVERSED
168								6.1359	.0000	1.0500	.0002
169								3.5418	.0000	1.0500	.0002
170								1.3870	.0000	1.0500	.0003
171								.0000	.0000	1.0500	REVERSED
172	78	1	96.8581	.0000	27.3245	3.5447	7.8601	3.5447	.1517		
173	79	1	37.9072	.0000	27.3240	1.3873	20.0865	1.3873	.3910		
174	80	1	167.7238	.0000	27.3266	6.1377	4.5401	6.1377	.0878		
175	81	1	.0000	.0000	27.2618	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.2630	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.2669	.0000	INF.	.0000	.0000	1.6500	.0005
178								15.8129	.0011		
179								10.6420	.0010		
180								12.0979	.0011		
181	84	1	371.3962	.0000	27.2143	13.6471	2.0235	13.6471	.0292	1.3000	.0001
182	85	1	277.6531	.0000	27.2189	10.2007	2.7074	10.2007	.0389	1.3000	.0001
183	86	1	297.5882	.0000	27.2137	10.9352	2.5291	10.9352	.0363	1.3000	.0001
184								.2162	.0000	1.3000	.0028
185								1.1603	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								2.1531	.0000	1.3000	.0021
188	88	1	5.8819	.0000	27.2265	.2160	127.8338	.2160	1.8065		
189	89	1	90.4630	.0000	27.2198	3.3234	8.3077	3.3234	.1174	1.3000	REVERSED
190								.0000	.0000	1.3000	.0013
191								.2231	.0000	1.3000	REVERSED
192								.0000	.0000		
193	87	1	6.0718	.0000	27.2268	.2230	123.8391	.2230	1.7500		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0000	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	93	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	1	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
212								.0000	.1310	.2000	.0023
213			.0000	.0000	.0000	.0000	INF.	.0000	.0000		
214	94	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
216	96	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-27. - Continued

218	0							.0000	.0070		
219	0							.0000	.0062		
220	98	45.9184	.0000	.0000	.0000	2.1778		.0000	.0000		
221	0							.0000	.0000		
222	0							.0000	.0000		
223	99	.0000	.0000	.0000	.0000	INF.		.0000	.0000		
224	100	.0000	.0000	.0000	.0000	INF.		.0000	.0000		
225	0							.0000	.0000		
226	0							.0000	.0007		
227	0							.0000	.0002		
228	0							.0157	.0002		
229	0							.0021	.0002		
230	101	.0000	.0000	29.5684	.0000	INF.		.0010	.0002		
231	0							.0000	.0022		
232	0							.5543	.0002		
233	0							.6350	.0002		
234	102	.0000	.0000	.0000	.0000	INF.		.8268	.0002		
235	103	.0000	.0000	.0000	.0000	INF.		.1850	.6500	.0007	
236	104	.0000	.0000	.0000	.0000	INF.		.0000	.6500	.0006	
237	105	.0000	.0000	.0000	.0000	INF.		.1350	.6500	.0007	
240	108	.0000	.0000	.0000	.0000	INF.		.1856	.6500	.0008	
								.0000	.0000		

NODE	1	TO	10	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	11	TO	20	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	21	TO	30	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	31	TO	40	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	41	TO	50	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	51	TO	60	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	61	TO	70	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734
NODE	71	TO	80	29.4270	29.5280	29.5684	29.5781	29.4780	29.5156	28.9111	28.6724	28.6734

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE SWITCH CON	1	1	1
CURRENT	244.55	249.64	263.88
VOLTAGE	29.56	29.64	29.70
PARASITIC	.0000	.0000	.0000
HP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	H2O PROD (LBS)
02	3124.00	2441.78	682.22	767.50
H2	368.00	281.49	86.51	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE INVERTER PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-27. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7462	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625

A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646

2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.433
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.61

A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650

3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7123	559.3900
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3359	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331

A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645

ACCUMULATED WATT-HRS OF SOURCES	974536.11	AND LOADS	918029.61	915645.70
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Figure 6.2-28.- Circuit solution at 2 days 5 hours 16 minutes 4 seconds

322

Figure 6.2-28. - Continued

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Figure 6.2-28. - Continued

104						2.2646	.0000	1.0500	.0007
105						.0000	.0000	1.0500	REVERSED
106						.0000	.0000	1.0500	REVERSED
107						.0000	.0000	1.0500	REVERSED
108						.9029	.0000	1.0500	.0011
109						.0402	.0000		
110	44	680.7580	.0000	27.3573	24.8839	1.1396	24.8839	.0425	
111	45	62.2584	.0000	27.4918	2.2646	12.8356	2.2646	1.0889	
112	46	24.7927	.0000	27.4744	.9024	31.5351	.9024	.0436	.3500 .0000
113	47	838.3135	.0000	27.6644	30.3030	.9566	30.3030	.0444	.3500 .0000
114	48	924.7710	.0000	27.7833	29.7286	.9776	29.7286	.3488	.3500 .0001
115	49	106.1065	.0000	27.8275	3.8130	7.6470	3.8130	.0521	1.0500 .0003
116								.1374	1.0500 .0093
117	50	.0000	.0000	28.2875	.0000	INF.	.0000	.0677	
118	51	.0000	.0000	28.2875	.0000	INF.	.0000	.0691	
119	52	.0000	.0000	28.2875	.0000	INF.	.0000	.0525	
120								.0000	.3500 .0024
121								.0000	.3500 .0024
122	53	.0000	.0000	.0000	.0000	INF.	.0000	.0691	.7000 .0015
123	54	.0000	.0000	.0000	.0000	INF.	.0000	.1063	.7000 .0015
124								.0321	.7000 .0004
125								.0256	.7000 .0004
126	55	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
127	56	.0000	.0000	.0000	.0000	INF.	.0000	.0000	.2000 .0004
128								.0000	.2000 .0004
129								.0053	
130	57	.0000	.0000	.0000	.0000	INF.	.0000	.0052	
131	58	.0000	.0000	.0000	.0000	INF.	.0000	.0041	
132	59	.0000	.0000	.0000	.0000	INF.	.0000	.0041	
133	60	25.5939	.0000	27.8963	.9175	31.5466	.9175	1.1408	
134	61	29.9099	.0000	27.8937	1.0723	26.9893	1.0723	.9760	
135	62	18.9549	.0000	27.8908	.6796	42.5791	.6796	1.5396	
136	63	149.4285	.0000	27.7117	5.3923	5.3026	5.3923	.1632	.3500 .0002
137	64	171.1729	.0000	27.7089	6.1775	4.6281	6.1775	.1479	.3500 .0004
138	65	164.9478	.0000	27.7043	5.9539	4.8015	5.9539	.0000	1.0500 .0006
139								.0000	1.0500 .0006
140								.0000	1.0500 .0005
141								.8294	.0000
142								2.2172	.0000
143								1.9255	.0000
144								11.5371	.0000
145	66	249.3630	.0000	27.3486	9.1179	3.0587	9.1179	.0593	
146	67	242.4586	.0000	27.3458	8.8664	3.1451	8.8664	.0609	
147	68	338.1692	.0000	27.3485	12.3652	2.2553	12.3652	.0435	
148								.0000	2.3500 REVERSED
149								.0000	2.3500 REVERSED
150								.0004	2.3500 .0015
151								.0008	2.3500 .0015
152								.0000	2.3500 .0008
153								.0000	2.3500 REVERSED
154	69	.0000	.0000	26.5929	.0000	INF.	.0000	.0237	
155	70	.0000	.0000	26.5902	.0000	INF.	.0000	.0120	
156	71	.0000	.0000	26.5929	.0000	INF.	.0000	.0238	
157								.0010	
158								.0008	
159								.0009	
160	72	536.5715	.0000	27.8691	19.2532	1.5023	19.2532	.0548	

ORIGINAL PAGE IS
OF POOR
QUALITY

Figure 6.2-28. - Continued

161	73	1	455.9443	.0000	27.8706	16.3593	1.7681	16.3593	.0644			
162	74	1	34.0460	.0000	27.8822	1.2211	23.6912	1.2211	.8568			
163	75	1	24.8130	.0000	27.8831	.8964	31.8758	.8964	.9929	.3500	.0002	
164	76	1	8.8484	.0000	27.6864	.3196	89.4100	.3196	2.7795	.3500	.0003	
165	77	1	22.1200	.0000	27.6883	.7989	35.7725	.7989	1.1139	.3500	.0003	
166								.0000	.0000	1.0500	REVERSED	
167								.0000	.0000	1.0500	REVERSED	
168								6.1321	.0000	1.0500	.0002	
169								3.5446	.0000	1.0500	.0002	
170								1.3870	.0000	1.0500	.0003	
171								.0000	.0000	1.0500	REVERSED	
172	78	1	96.8756	.0000	27.3364	3.5438	7.8655	3.5438	.1517			
173	79	1	37.9080	.0000	27.3357	1.3868	20.1030	1.3868	.3910			
174	80	1	167.7451	.0000	27.3383	6.1359	4.5433	6.1359	.0878			
175	81	1	.0000	.0000	27.2733	.0000	INF.	.0000	.0000	1.6500	.0005	
176	82	1	.0000	.0000	27.2747	.0000	INF.	.0000	.0000	1.6500	.0005	
177	83	1	.0000	.0000	27.2784	.0000	INF.	.0000	.0000	1.6500	.0005	
178								15.8060	.0011			
179								10.6420	.0010			
180								12.1078	.0011			
181	84	1	371.5712	.0000	27.2257	13.6478	2.0242	13.6478	.0292	1.3000	.0001	
182	85	1	277.8023	.0000	27.2306	10.2018	2.7083	10.2018	.0369	1.3000	.0001	
183	86	1	297.7435	.0000	27.2251	10.9364	2.5259	10.9364	.0363	1.3000	.0001	
184								1.2162	.0000	1.3000	.0028	
185								1.1687	.0000	1.3000	.0021	
186								.0000	.0000	1.3000	REVERSED	
187								2.1562	.0000	1.3000	.0021	
188	88	1	5.8867	.0000	27.2381	.2161	127.8390	.2161	1.8065			
189	89	1	90.5347	.0000	27.2311	3.3247	8.3080	3.3247	.1174	1.3000	REVERSED	
190								.0000	.0000	1.3000	.0013	
191								.2231	.0000	1.3000	REVERSED	
192								.0000	.0000			
193	87	1	6.0767	.0000	27.2384	.2231	123.8442	.2231	1.7500			
194								.0001	.0217	.3800	.0020	
195								.0000	.0410	.3800	.0021	
196								.0001	.0217	.3900	.0025	
197								.0000	.0410	.3900	.0024	
198								.0001	.0217	.3900	.0022	
199								.0000	.0410	.3900	.0021	
200								.0001	.0217	.3900	.0023	
201								.0000	.0410	.3900	.0021	
202								.0000	.0000	1.0500	.0053	
203								.0000	.0000	1.0500	.0053	
204								.0000	.0000	1.0500	.0053	
205								.0000	.0000	1.0500	.0053	
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023	
207								.0000	.1310	.2000	.0023	
208								.0000	.0000			
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023	
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023	
212								.0000	.0000			
213								.0000	.0000			
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370			
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370			
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370			

218		0					.0000	.0070		
219		0					.0000	.0062		
220	98	1	45.9184	.0000	.0000	.0000	2.1778	.0000		
221		0						.0000	.0000	
222		0						.0000	.0000	
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
225		0						.0000	.0000	
226		0						.0000	.0000	
227		1						.0000	.0002	
228		1						.0000	.0002	
229		1						.0000	.0002	
230	101	1	.0000	.0000	29.5763	.0000	INF.	.0000	.0002	
231		1						.0000	.0002	
232		1						.0000	.0002	
233		1						.0000	.0002	
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.0002	
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.0002	
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.0002	
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.0002	
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0002	

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NODE	1	10	10	29.0000	29.4359	29.5451	29.5763	29.3871	29.4955	29.5238	28.0000	28.0000	28.0000
NODE	11	10	29.2388	29.1898	29.0697	29.0756	29.1521	29.0824	29.0866	28.0000	28.6836	28.6836	28.6836
NODE	21	10	28.5852	27.6332	27.6330	27.6318	27.6300	27.6304	27.6767	28.6626	28.9212	28.6836	28.6836
NODE	31	10	27.7917	26.7917	26.7917	26.7917	26.7917	26.7917	26.7917	28.6536	28.6536	28.6536	28.6536
NODE	41	10	26.2875	26.0000	26.0000	26.0000	26.0000	26.0000	26.9429	28.3570	28.4563	28.4563	28.4563
NODE	51	10	26.5929	26.5929	26.5929	26.5929	26.5929	26.5929	26.9408	28.8961	28.8961	28.8961	28.8961
NODE	61	10	28.9292	28.9238	27.6289	27.6285	27.6214	27.6214	28.5433	28.5437	28.5437	28.5437	28.5437
NODE	71	10	28.5347	.0000	.0000	29.5763	29.5763	29.5763	29.5763	.0000	.0000	.0000	.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	243.69	247.97	262.94
VOLTAGE	29.57	29.66	29.71
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	H2O PROD (LBS)
O2	3124.00	2440.45	683.55	768.99
H2	368.00	281.32	86.68	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	A.C. BUS PWR. FAC.	CURRENT (AMP)	LOAD (VA)	SINGLE PHASE PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
1	100	1.00	1.00	100	1.00	1.00	100	1.00	100
2	100	1.00	1.00	100	1.00	1.00	100	1.00	100
3	100	1.00	1.00	100	1.00	1.00	100	1.00	100
4	100	1.00	1.00	100	1.00	1.00	100	1.00	100
5	100	1.00	1.00	100	1.00	1.00	100	1.00	100
6	100	1.00	1.00	100	1.00	1.00	100	1.00	100
7	100	1.00	1.00	100	1.00	1.00	100	1.00	100
8	100	1.00	1.00	100	1.00	1.00	100	1.00	100
9	100	1.00	1.00	100	1.00	1.00	100	1.00	100
10	100	1.00	1.00	100	1.00	1.00	100	1.00	100
11	100	1.00	1.00	100	1.00	1.00	100	1.00	100
12	100	1.00	1.00	100	1.00	1.00	100	1.00	100
13	100	1.00	1.00	100	1.00	1.00	100	1.00	100
14	100	1.00	1.00	100	1.00	1.00	100	1.00	100
15	100	1.00	1.00	100	1.00	1.00	100	1.00	100
16	100	1.00	1.00	100	1.00	1.00	100	1.00	100
17	100	1.00	1.00	100	1.00	1.00	100	1.00	100
18	100	1.00	1.00	100	1.00	1.00	100	1.00	100
19	100	1.00	1.00	100	1.00	1.00	100	1.00	100
20	100	1.00	1.00	100	1.00	1.00	100	1.00	100
21	100	1.00	1.00	100	1.00	1.00	100	1.00	100
22	100	1.00	1.00	100	1.00	1.00	100	1.00	100
23	100	1.00	1.00	100	1.00	1.00	100	1.00	100
24	100	1.00	1.00	100	1.00	1.00	100	1.00	100
25	100	1.00	1.00	100	1.00	1.00	100	1.00	100
26	100	1.00	1.00	100	1.00	1.00	100	1.00	100
27	100	1.00	1.00	100	1.00	1.00	100	1.00	100
28	100	1.00	1.00	100	1.00	1.00	100	1.00	100
29	100	1.00	1.00	100	1.00	1.00	100	1.00	100
30	100	1.00	1.00	100	1.00	1.00	100	1.00	100
31	100	1.00	1.00	100	1.00	1.00	100	1.00	100
32	100	1.00	1.00	100	1.00	1.00	100	1.00	100
33	100	1.00	1.00	100	1.00	1.00	100	1.00	100
34	100	1.00	1.00	100	1.00	1.00	100	1.00	100
35	100	1.00	1.00	100	1.00	1.00	100	1.00	100
36	100	1.00	1.00	100	1.00	1.00	100	1.00	100
37	100	1.00	1.00	100	1.00	1.00	100	1.00	100
38	100	1.00	1.00	100	1.00	1.00	100	1.00	100
39	100	1.00	1.00	100	1.00	1.00	100	1.00	100

Figure 6.2-28. - Concluded

1A	570.1333	-.47274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.458
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.958
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.762

A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646

2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.503
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.686
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.666

A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650

3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7123	559.390
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.069
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.033

A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645

ACCUMULATED WATT-HRS OF SOURCES	976401.87	AND LOADS	919776.87	917389.16
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Figure 6.2-29.- Circuit solution at 2 days 5 hours 21 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME 53.35111 TIME STEP .05111 NEXT INPUT TIME 53.38444

TOTAL SOURCE POWER 21943.8796 TOTAL DC/AC LOAD 20558.3037 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6

BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT
1	1	1	29.62	239.04						239.0386	.0006			
2	2	1	29.70	243.38						243.3768	.0005			
3	3	1	29.78	256.98						256.9825	.0005			
4	4	1			.0000	.0000	29.4830	.0000	INF.	.0000	.0000			
5	5	1			.0000	.0000	29.5922	.0000	INF.	.0000	.0000			
6	6	1			.0000	.0000	29.6303	.0000	INF.	.0000	.0000			
7	7	1								.0000	.0003			
8	8	1								.0000	.0002			
9	9	1								.0000	.0005			
10	10	1								.0000	.0016			
11	11	1								.0000	.0002			
12	12	1								.0000	.0009			
13	13	5			6.5729	.0000	27.9381	.2353	125.1144	.2353	6.3636			
14	14	5			11.4000	.0000	28.0860	.4065	72.6825	.4065	3.6842			
15	15	6			6.6376	.0000	28.0745	.2364	125.1075	.2364	6.3636			
16	16	1								31.0339	.0016			
17	17	1								56.2120	.0014			
18	18	1								10.8639	.0015			
19	19	7			26.5407	.0000	27.9354	.9901	30.9822	.9901	1.5786			
20	20	8			38.0776	.0000	28.0839	1.3578	21.7586	1.3578	1.1045			
21	21	9			32.5090	.0000	28.0759	1.1721	25.2351	1.1721	1.2824			
22	22	10			169.7176	.0000	27.9377	6.0749	4.8454	6.0749	.2465			
23	23	11			109.3106	.0000	28.0415	3.8982	7.5788	3.8982	.3853			
24	24	1								9.0080	.0317			
25	25	1								10.7227	.0312			
26	26	1								.0000	.3900			
27	27	1								.0000	.3900			
28	28	1								8.4866	.0058			
29	29	12			547.2003	.0000	28.4863	19.2092	1.5224	19.2092	.0395			
30	30	15			14.8876	.0000	28.5509	.5214	56.1786	.5214	1.4247			
31	31	1								17.2964	.0183			
32	32	1								20.3323	.0206			
33	33	1								19.1779	.0195			
34	34	16			337.4287	.0000	28.1628	11.8968	2.4476	11.8968	.0655			
35	35	17			478.3161	.0000	28.3687	13.3357	2.1840	13.3357	.0567			
36	36	18			274.2753	.0000	28.4540	9.6392	3.0298	9.6392	.0779			
37	37	1								3.3948	.0074	.2000	.0009	
38	38	1								3.0989	.0091	.2000	.0016	
39	39	1								6.2019	.0074	.2000	.0009	
40	40	1								6.4396	.0126	.2000	.0016	
41	41	1												
42	42	1												
43	43	1												

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Figure 6.2-29. - Continued

45	19	327.4832	.0000	28.2279	11.6014	2.4888	11.6014	.0091	.2000	REVERSED
46	20	204.5056	.0000	28.2685	7.2344	3.9987	7.2344	.0557		
47	21	87.8000	.0000	28.3320	3.0990	9.3497	3.0990	.2073		
48							122.9407	.0057		
49							114.0081	.0071		
50							173.9795	.0048		
51	22	418.2922	.0000	27.4511	15.2377	1.8629	15.2377	.0611	.3500	.0002
52	23	386.4010	.0000	27.4508	14.0761	2.0167	14.0761	.0663	.3500	.0002
53	24	797.6691	.0000	27.4411	29.0684	.9766	29.0684	.0724	.3500	.0002
54	25	2058.1800	.0000	28.3838	72.5123	.3963	72.5123	.0049		
55	26	1339.8562	.0000	28.5087	46.9980	.6114	46.9980	.0049		
56	27	1944.4928	.0000	28.4062	68.4530	.4198	68.4530	.0049		
57							1.9105	.0000	1.0500	.0002
58							3.3192	.0000	1.0500	.0002
59							7.9635	.0000	1.0500	.0005
60							7.2750	.0000	1.0500	.0002
61							10.2670	.0000	1.0500	.0002
62							3.2224	.0000	1.0500	.0005
63	28	248.6876	.0000	27.0921	9.1793	3.0161	9.1793	.0646		
64	29	368.0127	.0000	27.0965	13.5815	2.0785	13.5815	.0434		
65	30	303.0117	.0000	27.0964	11.1827	2.4756	11.1827	.0525		
66							39.4080	.0000	1.0500	.0001
67							29.1669	.0000	1.0500	.0001
68							53.3035	.0000	1.0500	.0001
69	31	3300.5956	.0000	27.0833	121.8681	.2272	121.8681	.0049		
70							2.8738	.0079		
71							2.9122	.0085		
72							4.9001	.0067		
73	32	23.5165	.0000	26.9927	.8712	31.4834	.8712	.5000	1.3000	.0005
74	33	77.7390	.0000	26.9759	2.8818	9.5122	2.8818	.1511	1.3000	.0003
75	34	132.1392	.0000	26.9666	4.9001	5.5929	4.9001	.0888	1.3000	.0008
76							.0277	.0000	1.3000	.0005
77							.0000	.0000	1.3000	REVERSED
78							.0000	.0000	1.3000	REVERSED
79							.0006	.0000	1.3000	.0005
80							.0280	15.5556		
81		.7550	.0000	26.9767	.0280	979.4227	.0000	.0000		
82	36	.0000	.0000	27.4288	.0000	INF.	.0000	.0000		
83	37						.0000	.0000		
84							.2526	.0000	1.4000	REVERSED
85							.1970	.0000	1.0500	.0026
86							.4583	.1955	1.0500	.0026
87							.4934	.1900	1.0500	.0026
88							.0000	.2058	1.4000	REVERSED
89							1.0965	.1499	1.0500	.0026
90							1.4027	.1372	1.0500	.0026
91							2.4696	.0894	1.0500	.0026
92							.0000	.2221	1.4000	REVERSED
93							.0000	.0000		
94	38	4.8773	.0000	24.4127	.1998	122.2178	.1998	.0212	3.9000	.0002
95	39	4.8641	.0000	24.3818	.1995	122.2374	.1995	.0212	3.9000	.0002
96	40	4.7682	.0000	24.3341	.1959	124.2420	.1959	.0538	3.9000	.0006
97	41	46.9737	.0000	27.6930	1.6962	16.6941	1.6962	.3679		
98	42	69.6560	.0000	27.6627	2.5180	11.2334	2.5180	.2476		
99	43	37.5352	.0000	27.6222	1.3589	20.7854	1.3589	.4582		
100							60.5054	.0073		
101							47.1592	.0117		
102							31.3643	.0189		
103							24.8456	.0000	1.0500	.0003

Figure 6.2-29. - Continued

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Figure 6.2-29. - Continued

161	73	1	456.0699	.0000	27.9521	16.3336	1.7739	16.3336	.0644		
162	74	1	34.1561	.0000	27.9306	16.2229	23.6566	16.2229	.8568		
163	75	1	24.8150	.0000	27.7345	.8947	31.9907	.8947	.9929	.3500	.0002
164	76	1	8.8511	.0000	27.7375	.3191	89.7039	.3191	2.7795	.3500	.0003
165	77	1	22.1200	.0000	27.7399	.7974	35.9018	.7974	1.1139	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								.0000	.0000	1.0500	REVERSED
168								6.1284	.0000	1.0500	.0002
169								3.5399	.0000	1.0500	.0002
170								1.3841	.0000	1.0500	.0003
171								.0000	.0000	1.0500	REVERSED
172	78	1	96.9496	.0000	27.3868	3.5400	7.8880	3.5400	.1517		
173	79	1	37.9112	.0000	27.3866	1.3843	20.1748	1.3843	.3910		
174	80	1	167.8373	.0000	27.3889	6.1279	4.5574	6.1279	.0878		
175	81	1	.0000	.0000	27.3231	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.3245	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.3283	.0000	INF.	.0000	.0000	1.6500	.0005
178								15.7877	.0011		
179								10.6493	.0010		
180								12.1398	.0011		
181	84	1	372.3313	.0000	27.2754	13.6508	2.0274	13.6508	.0292	1.3000	.0001
182	85	1	278.4332	.0000	27.2802	10.2064	2.7119	10.2064	.0389	1.3000	.0001
183	86	1	298.4262	.0000	27.2748	10.9414	2.5293	10.9414	.0363	1.3000	.0001
184								.2167	.0000	1.3000	.0028
185								1.1961	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								2.1340	.0000	1.3000	.0021
188	88	1	5.9069	.0000	27.2873	.2165	127.8614	.2165	1.8065		
189	89	1	90.8460	.0000	27.2803	3.3301	8.3094	3.3301	.1174		
190								.0000	.0000	1.3000	REVERSED
191								.2235	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	6.0976	.0000	27.2876	.2235	123.8659	.2235	1.7500		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209								.0000	.0000		
210	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-29. - Continued

[illegible]

332	MODE	1	TO	10	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	11	TO	20	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	21	TO	30	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	31	TO	40	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	41	TO	50	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	51	TO	60	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	61	TO	70	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000
	MODE	71	TO	80	29.00000	29.48300	29.59222	29.63303	29.64152	29.64335	29.57990	29.00000	29.00000	29.00000

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	239.04	243.38	256.58
VOLTAGE	29.62	29.70	29.76
PARASITIC	.06.00	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	2439.15	684.85	770.46
H2	368.00	281.16	86.84	

*****C. BUS*****				*****INVERTER STATUS*****				*****SINGLE PHASE INVERTER*****				*****	
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)				
1	100	0.95	1.0	100	0.95	1.0	95	1.0	100				
2	200	0.95	2.0	200	0.95	2.0	95	1.0	200				
3	300	0.95	3.0	300	0.95	3.0	95	1.0	300				
4	400	0.95	4.0	400	0.95	4.0	95	1.0	400				
5	500	0.95	5.0	500	0.95	5.0	95	1.0	500				
6	600	0.95	6.0	600	0.95	6.0	95	1.0	600				
7	700	0.95	7.0	700	0.95	7.0	95	1.0	700				
8	800	0.95	8.0	800	0.95	8.0	95	1.0	800				
9	900	0.95	9.0	900	0.95	9.0	95	1.0	900				
10	1000	0.95	10.0	1000	0.95	10.0	95	1.0	1000				

Figure 6.2-29. - Concluded

1A	570.1333	-.67274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	567.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.8660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7803	443.5033
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7230	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7123	559.3900
3B	483.5333	-.7181	5.8555	497.0914	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 978244.28 AND LOADS 921502.37 919110.84									

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Figure 6.2-30. - Continued

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Figure 6.2-30. - Continued

104							2.2681	.0000			
105							- .0000	.0000	1.0500	REVERSED	.0007
106							- .0000	.0000	1.0500	REVERSED	
107							- .0000	.0000	1.0500	REVERSED	
108							- .0000	.0000	1.0500	REVERSED	
109	44						.9022	.0000	1.0500		.0011
110		680.9325	.0000	27.4069	24.8452	1.1433	24.8452	.0402			
111	46	62.4872	.0000	27.5854	2.2686	12.5683	2.2685	.4259			
112	47	24.8357	.0000	27.5299	.9021	31.6053	.9021	1.0869			
113	48	840.4400	.0000	27.7114	30.3283	.9574	30.3283	.0436	.3500	.0000	
114	49	827.3396	.0000	27.7855	29.7716	.9574	29.7716	.0994	.3500	.0000	
115		106.3152	.0000	27.8827	3.8129	7.6616	3.8129	.3488	.3500	.0001	
116							.0000	.0521	1.0500	.0003	
117	50						.0000	.1374	1.0500	.0003	
118	51	.0000	.0000	28.3356	.0000	INF.	.0000	.0677			
119	52	.0000	.0000	28.3356	.0000	INF.	.0000	.0691			
120		.0000	.0000	28.3356	.0000	INF.	.0000	.0525			
121							.0000	.0000	.3500	.0024	
122	53						.0000	.0000	.3500	.0024	
123	54	.0000	.0000	.0000	.0000	INF.	.0000	.0691	.7000	.0015	
124		.0000	.0000	.0000	.0000	INF.	.0000	.1063	.7000	.0015	
125							.0000	.0321	.7000	.0004	
126	55						.0000	.0256	.7000	.0004	
127	56	.0000	.0000	.0000	.0000	INF.	.0000	.0000			
128		.0000	.0000	.0000	.0000	INF.	.0000	.0000			
129							.0000	.0000	.2000	.0004	
130	57	.0000	.0000	.0000	.0000	INF.	.0000	.0000	.2000	.0004	
131	58	.0000	.0000	.0000	.0000	INF.	.0000	.0052			
132	59	.0000	.0000	.0000	.0000	INF.	.0000	.0041			
133	60	.0000	.0000	.0000	.0000	INF.	.0000	.9188			
134	61	25.6763	.0000	27.9445	.9188	31.5538	.9188	1.1408			
135	62	10.0053	.0000	27.9419	1.0739	26.9955	1.0739	.760			
136	63	19.0162	.0000	27.9391	.6806	42.5890	.6806	1.5398			
137	64	149.6962	.0000	27.7614	5.3922	5.3119	5.3922	.1632	.3500	.0002	
138	65	171.4790	.0000	27.7587	6.1775	4.6362	6.1775	.1425	.3500	.0002	
139		165.2362	.0000	27.7543	5.9535	4.8101	5.9535	.1479	.3500	.0004	
140							6.8832	.0000	1.0500	.0006	
141							6.8122	.0000	1.0500	.0006	
142							.9693	.0000	1.0500	.0005	
143							2.2221	.0000	1.0500	.0006	
144							2.0435	.0000	1.0500	.0006	
145	66	249.4436	.0000	27.3992	9.1000	3.0688	11.3788	.0000	1.0500	.0005	
146	67	242.5393	.0000	27.3968	8.8529	3.1556	9.1040	.0593			
147	68	338.3810	.0000	27.3990	12.3501	2.2621	8.8529	.0609			
148							12.3501	.0435			
149							- .0000	.0000	2.3500	REVERSED	
150							- .0000	.0000	2.3500	REVERSED	
151							.0007	.0000	2.3500	.0015	
152							.0001	.0000	2.3500	.0015	
153							.0001	.0000	2.3500	.0008	
154	69						.0000	.0000	2.3500	REVERSED	
155	70	.0000	.0000	26.6427	.0000	INF.	.0000	.0237			
156	71	.0000	.0000	26.6400	.0000	INF.	.0000	.0120			
157		.0000	.0000	26.6427	.0000	INF.	.0000	.0236			
158							20.1193	.0010			
159							20.1973	.0008			
160	72						9.5476	.0009			
							19.2234	.0548			
		536.7289	.0000	27.9206	19.2234	1.5072					

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ORIGINAL

ORIGINAL PAGE IS
OF NO SIGNIFICANCE

Figure 6.2-30. - Continued

161	73	1	456.0699	.0000	27.9221	16.3336	1.7739	16.3336	.0644			
162	74	1	34.1561	.0000	27.9306	1.2229	23.6966	1.2229	.8568			
163	75	1	24.8150	.0000	27.7345	.8947	31.9907	.8947	.9929	.3500	.0002	
164	76	1	8.8511	.0000	27.7375	.3191	89.7039	.3191	2.7795	.3500	.0003	
165	77	1	22.1200	.0000	27.7399	.7974	35.9018	.7974	1.1139	.3500	.0003	
166									.0000	1.0500	REVERSED	
167									.0000	1.0500	REVERSED	
168									.0000	1.0500	.0002	
169									.0000	1.0500	.0002	
170									.0000	1.0500	.0002	
171									.0000	1.0500	REVERSED	
172	78	1	96.9496	.0000	27.3868	3.5400	7.8880	3.5400	.1517			
173	79	1	37.9112	.0000	27.3866	1.3843	20.1748	1.3843	.3910			
174	80	1	167.8373	.0000	27.3889	6.1279	4.5574	6.1279	.0878			
175	81	1	.0000	.0000	27.3231	.0000	INF.	.0000	.0000	1.6500	.0005	
176	82	1	.0000	.0000	27.3245	.0000	INF.	.0000	.0000	1.6500	.0005	
177	83	1	.0000	.0000	27.3283	.0000	INF.	.0000	.0000	1.6500	.0005	
178									.0011			
179									.0010			
180									.0011			
181	84	1	372.3313	.0000	27.2754	13.6508	2.0274	13.6508	.0292	1.3000	.0001	
182	85	1	278.4332	.0000	27.2802	10.2064	2.7119	10.2064	.0389	1.3000	.0001	
183	86	1	298.4262	.0000	27.2748	10.9414	2.5293	10.9414	.0363	1.3000	.0026	
184									.0000	1.3000	.0021	
185									.0000	1.3000	REVERSED	
186									.0000	1.3000	.0021	
187									.0000			
188	88	1	5.9069	.0000	27.2873	.2165	127.8614	.2165	1.8065	1.3000	REVERSED	
189	89	1	90.8460	.0000	27.2803	3.3301	8.3094	3.3301	.1174	1.3000	.0013	
190									.0000	1.3000	REVERSED	
191									.0000			
192									.0000			
193	87	1	6.0976	.0000	27.2876	.2235	123.8659	.2235	1.7500	.3800	.0020	
194									.0001	.0410	.0021	
195									.0001	.0410	.0025	
196									.0001	.0410	.0024	
197									.0001	.0410	.0022	
198									.0001	.0410	.0021	
199									.0001	.0410	.0021	
200									.0000	.0410	.0021	
201									.0000	.0410	.0021	
202									.0000	.0410	.0021	
203									.0000	.0410	.0021	
204									.0000	.0410	.0021	
205									.0000	.0410	.0021	
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	1.0500	.0053	
207									.0000	1.0500	.0053	
208									.0000	1.0500	.0053	
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	1.0500	.0053	
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	1.0500	.0053	
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	1.0500	.0053	
212									.0000	.1340	.0023	
213									.0000	.1340	.0023	
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023	
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023	
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023	
217	97	1							.0000	.1340	.0000	

Figure 6.2-30. - Continued

218		0					.0000	.0070		
219		0					.0000	.0062		
220	98	0	45.9164	.0000	.0000	.0000	2.1778	.0000		
221		0						.0000		
222		0						.0000		
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000		
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000		
225		0						.0000		
226		0						.0000	.0007	
227		0						.0000	.0002	
228		0						.0238	.0002	
229		0						.0000	.0002	
230	101	0	.0000	.0000	29.6303	.0000	INF.	.0010	.0002	
231		0						.0000	.0022	
232		0						.0397	.0002	
233		0						239.3753	.0002	
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.0002	
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500 .0007
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500 .0008
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500 .0007
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500 .0008

[illegible]

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	239.04	243.38	256.58
VOLTAGE	29.62	29.70	29.76
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
07	3124.00	2437.85	686.15	771.92
H2	368.00	281.00	87.00	

PAGE	*****A.C. BUS*****				*****INVERTER STATUS*****				CURRENT RATIO	D.C. POWER (WATT)
	INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT		
2	1	1000	0.95	10.5	1000	0.95	10.5	95.0	1000	1000

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OF POOR QUALITY

Figure 6.2-30. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	482.5333	-.6817	6.1551	512.5660	-.9414	4.4571	.7650	.7241	630.7625
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	339.2800	-.7367	4.0047	340.9368	.9951	2.9647	.7650	.7403	443.5033
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.8863
2C	357.0000	-.7237	4.2895	357.0293	.9999	3.1046	.7650	.7238	466.6667
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	427.9333	-.6940	5.3616	439.2120	-.9743	3.8192	.7650	.7123	559.3900
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 980072.91 AND LOADS 923215.02 920819.70									

Figure 6.2-31.- Circuit solution at 2 days 5 hours 31 minutes 4 seconds (Deorbit)

[illegible]

Figure 6.2-31. - Continued

[illegible]

Figure 6.2-31. - Continued

104							2.2533	.0000	1.0500	.0007
105							-.0000	.0000	1.0500	REVERSED
106							-.0000	.0000	1.0500	REVERSED
107							-.0000	.0000	1.0500	REVERSED
108							.9031	.0000	1.0500	.0011
109	44		680.1813	.0000	27.1933	25.0128	1.1274	25.0128	.0402	
110	45		51.6955	.0000	27.3601	2.2644	12.5593	2.2644	.4259	
111	46		24.6868	.0000	27.3379	.9030	31.3624	.9030	1.0889	
112	47		832.3887	.0000	27.4839	30.2864	.9510	30.2864	.0435	.3500
113	48		797.5381	.0000	27.5202	28.9058	1.0000	28.9058	.0454	.3500
114	49		103.5981	.0000	27.6914	3.7412	1.7595	3.7412	.3556	.3500
115									.0521	1.0500
116									.1374	1.0500
117	50		.0000	.0000	28.1029	.0000	INF.	.0000	.0677	.0003
118	51		.0000	.0000	28.1029	.0000	INF.	.0000	.0691	.0003
119	52		.0000	.0000	28.1029	.0000	INF.	.0000	.0525	
120									.0000	.3500
121									.0000	.3500
122	53		.0000	.0000	.0000	.0000	INF.	.0000	.0691	.0024
123	54		.0000	.0000	.0000	.0000	INF.	.0000	.1063	.0015
124									.0321	.7000
125									.0256	.7000
126	55		.0000	.0000	.0000	.0000	INF.	.0000	.0000	.0004
127	56		.0000	.0000	.0000	.0000	INF.	.0000	.0000	.0004
128									.0000	.2000
129									.0000	.2000
130	57		.0000	.0000	.0000	.0000	INF.	.0000	.0053	
131	58		.0000	.0000	.0000	.0000	INF.	.0000	.0052	
132	59		.0000	.0000	.0000	.0000	INF.	.0000	.0041	
133	60		36.5127	.0000	27.5353	1.3260	21.5455	1.3260	.7804	
134	61		30.7944	.0000	27.5337	1.1184	25.5435	1.1184	.9252	
135	62		14.3948	.0000	27.5284	.5229	54.6234	.5229	1.9785	
136	63		210.1940	.0000	27.3437	7.6871	3.6711	7.6871	.1138	.3500
137	64		231.6511	.0000	27.3417	8.4725	3.3306	8.4725	.1033	.3500
138	65		225.5132	.0000	27.3340	8.2503	3.4196	8.2503	.1061	.3500
139									.0000	1.0500
140									.0000	1.0500
141									.7624	1.0500
142									.4267	1.0500
143									1.0562	1.0500
144									14.1327	1.0500
145	66		313.9737	.0000	26.9767	11.4387	2.3642	11.4387	.0464	
146	67		307.0530	.0000	26.9734	11.3835	2.4169	11.3835	.0473	
147	68		401.7940	.0000	26.9746	14.8953	1.8471	14.8953	.0361	.3500
148									.0000	2.3500
149									.0000	2.3500
150									.0004	2.3500
151									.0003	2.3500
152									.0001	2.3500
153									.0000	2.3500
154	69		.0000	.0000	26.2201	.0000	INF.	.0000	.0237	REVERSED
155	70		.0000	.0000	26.2184	.0000	INF.	.0000	.0170	
156	71		.0000	.0000	26.2201	.0000	INF.	.0000	.0238	
157									.0010	
158									.0008	
159									.0009	
160	72		548.5004	.0000	27.4710	19.9665	1.4293	19.9665	.0534	

Figure 6.2-31. - Continued

161	73	1	456.7049	.0000	27.4011	16.6189	1.7178	16.6189	.0642		
162	74	1	29.4337	.0000	27.5129	1.0698	26.6840	1.0698	.9666		
163	75	1	376.2389	.0000	27.3209	13.7711	2.0468	13.7711	.0627	.3500	.0002
164	76	1	127.3406	.0000	27.3326	4.6589	6.0524	4.6589	.1855	.3500	.0003
165	77	1	255.2647	.0000	27.3292	9.3403	3.0188	9.3403	.0926	.3500	.0003
166								-.0000	.0000	1.0500	REVERSED
167								1.4051	.0000	1.0500	.0003
168								6.9001	.0000	1.0500	.0002
169								4.2828	.0000	1.0500	.0002
170								-.0000	.0000	1.0500	REVERSED
171								-.0000	.0000	1.0500	REVERSED
172	78	1	115.4089	.0000	26.9600	4.2807	6.4234	4.2807	.1254		
173	79	1	37.8835	.0000	26.9476	1.4058	19.6597	1.4058	.3910		
174	80	1	186.1256	.0000	26.9548	6.9051	3.9819	6.9051	.0783		
175	81	1	.0000	.0000	26.8872	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	26.8978	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.8970	.0000	INF.	.0000	.0000	1.6500	.0005
178								22.2809	.0011		
179								14.0213	.0010		
180								15.7857	.0011		
181	84	1	550.5352	.0000	26.8501	20.5040	11.3288	20.5040	.0192	1.3000	.0001
182	85	1	364.8825	.0000	26.8590	13.5851	2.0062	13.5851	.0289	1.3000	.0001
183	86	1	383.2869	.0000	26.8502	14.2743	1.9087	14.2743	.0275	1.3000	.0001
184								1.5101	.0000	1.3000	.0028
185								-.0000	.0000	1.3000	.0021
186								1.7734	.0000	1.3000	REVERSED
187								-.0000	.0000	1.3000	.0021
188	88	1	5.7344	.0000	26.8677	.2134	127.6918	.2134	1.8065		
189	89	1	88.1672	.0000	26.8569	3.2828	8.2984	3.2828	.1174		
190								-.0000	.0000	1.3000	REVERSED
191								.2203	.0000	1.3000	.0013
192								-.0000	.0000	1.3000	REVERSED
193								.2203	.0000	1.3000	.0013
194	87	1	5.9195	.0000	26.8680	.2203	123.7016	.2203	1.7500		
195								.0001	.0217	.3800	.0020
196								.0000	.0410	.3800	.0021
197								.0001	.0217	.3900	.0025
198								.0000	.0410	.3900	.0024
199								.0001	.0217	.3900	.0022
200								.0000	.0410	.3900	.0021
201								.0001	.0217	.3900	.0023
202								.0000	.0410	.3900	.0021
203								.0000	.0000	1.0500	.0053
204								.0000	.1460	1.0500	.0053
205								.0000	.0000	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207								.0000	.1340		
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-31. - Continued

218		0					.0000	.0070		
219		1					.0000	.0062		
220	98	1	75.0000	.0000	.0000	.0000	1.3333	.0000		
221		0						.0000	.0000	
222		0						.0000	.0000	
223		0						.0000	.0000	
224	99	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
225	100	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
226		0						.0000	.0007	
227		0						.0000	.0002	
228		0						.0000	.0000	
229		0						.0000	.0000	
230	101	1	.0000	.0000	29.4438	.0000	INF.*	.0000	.0002	
231		1						.0000	.0022	
232		1						.0000	.0002	
233		1						.0000	.0002	
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000	

[illegible]

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE	1	1	1
SWITCH CON	1	1	1
CURRENT	262.53	264.05	278.54
VOLTAGE	29.40	29.51	29.58
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SDC			
AH - FMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	2436.54	687.46	773.40
H2	358.00	280.83	87.17	

*****INVERTER STATUS*****			
INVERTER	A.C. BUS LOAD (WATT)	PWR. FAC.	CURRENT (AMP)
INVERTER	SINGLE PHASE LOAD (VA)	PWR. FAC.	CURRENT (AMP)
			EFFICIENCY PER CENT
			CURRENT RATIO
			D.C. POWER (WATT)

Figure 6.2-31. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9582
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2000	-.7433	4.0629	348.7910	-.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	-.9935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	562.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7646									
ACCUMULATED WATT-HRS OF SOURCES 981929.30 AND LOADS 924951.09 922552.02									

Figure 6.2-32.- Circuit solution at 2 days 5 hours 36 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME 53.60111 TIME STEP .03333 NEXT INPUT TIME 53.60119
 TOTAL SOURCE POWER 22703.2612 TOTAL DC/AC LOAD 21272.7329 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6

BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	RPC RESISTANCE	SHUNT
1	1	1	29.53	248.36						248.3564	.0006			
2	2	1	29.62	251.83						251.8348	.0005			
3	3	1	29.68	266.54						266.5373	.0005			
4	4	1			.0000	.0000	29.3884	.0000	INF.	.0000	.0000			
5	5	1			.0000	.0000	29.5065	.0000	INF.	.0000	.0000			
6	6	1			.0000	.0000	29.5458	.0000	INF.	.0000	.0000			
7	7	1								.0000	.0003			
8	8	1								.0000	.0002			
9	9	1								.0000	.0005			
10	10	1								.0000	.0016			
11	11	1								.0000	.0002			
12	12	1								.0000	.0009			
13	13	4			.0000	.0000	29.3388	.0000	INF.	.0000	.0000			
14	14	5			11.4000	.0000	27.9537	.4078	72.2289	.4078	3.6842			
15	15	6			.0000	.0000	29.4925	.0000	INF.	.0000	.0000			
16	16	7								30.9975	.0016			
17	17	8								55.5468	.0014			
18	18	9								10.8113	.0015			
19	19	10			26.4438	.0000	27.8393	.9499	30.8872	.9499	1.5786			
20	20	11			37.9818	.0000	27.9655	1.3586	21.6805	1.3586	1.1045			
21	21	12			32.7390	.0000	27.9927	1.1696	25.2169	1.1696	1.2824			
22	22	13			156.9963	.0000	27.8449	5.9974	4.8919	5.9974	.2491			
23	23	14			108.9708	.0000	27.9577	3.8262	7.6986	3.8262	.3916			
24	24	15								9.9531	.0317			
25	25	16								11.8577	.0312			
26	26	17								.0000	.3900			
27	27	18								.0000	.3900			
28	28	19								9.4304	.0058			
29	29	20			603.8606	.0000	28.3659	21.2882	1.3680	21.2882	.0356			
30	30	21			14.8560	.0000	28.4329	.5225	55.8426	.5225	1.4247			
31	31	22								18.5943	.0183			
32	32	23								22.1168	.0203			
33	33	24								20.9694	.0198			
34	34	25			365.4925	.0000	28.2441	12.9405	2.2409	12.9405	.0583			
35	35	26			435.3660	.0000	28.2463	15.4132	1.8816	15.4132	.0490			
36	36	27			320.4959	.0000	28.3315	11.3123	2.5710	11.3123	.0665			
37	37	28								5.6538	.0074	.2000	.0009	
38	38	29								5.7139	.0126	.2000	.0016	
39	39	30								3.1127	.0091	.2000	.0008	
40	40	31								5.9897	.0074	.2000	.0009	
41	41	32								6.5443	.0126	.2000	.0016	

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OF POOR QUALITY

Figure 6.2-32. - Continued

46	20	327.2189	.0000	28.1032	11.6434	2.4693	-0.0000	.0091	.2000	REVERSED
46	21	204.2701	.0000	28.1434	7.2582	3.9567	11.6434	.0557		
47	21	87.8000	.0000	28.2075	3.1126	9.2696	7.2582	.0892		
49							3.1126	.2073		
50							123.6714	.0057		
51	22	482.1307	.0000	27.3528	17.6266	1.8047	115.8514	.0071		
52	23	413.4286	.0000	27.3528	15.1155	1.8713	176.8182	.0048		
53	24	787.8454	.0000	27.3528	15.1155	1.8713	11.6265	.0527	.3500	.0002
54	25	2084.7159	.0000	28.2888	28.8184	1.8713	15.1155	.0616	.3500	.0002
55	26	1364.6928	.0000	28.4032	48.0470	1.8713	28.8184	.0328	.3500	.0002
56	27	1954.9503	.0000	28.3029	69.0722	1.8713	48.0470	.0049		
57							69.0722	.0049		
58							1.5041	.0000	1.0500	.0002
59							2.9215	.0000	1.0500	.0002
60							8.2875	.0000	1.0500	.0005
61							7.6916	.0070	1.0500	.0002
62							10.6918	.0000	1.0500	.0002
63	28	248.3939	.0000	26.9900	9.2031	2.9973	2.9146	.0000	1.0500	.0005
64	29	367.3291	.0000	26.9950	13.6072	2.0273	9.2031	.0646		
65	30	302.3291	.0000	26.9950	11.1994	2.4629	13.6072	.0434		
66							11.1994	.0525		
67							39.5316	.0000	1.0500	.0001
68							27.7190	.0000	1.0500	.0001
69	31	3300.3375	.0000	26.9806	122.3222	.2255	55.0721	.0000	1.0500	.0001
70							122.3222	.0049		
71							2.8639	.0079		
72							2.5284	.0085		
73	32	23.1675	.0000	26.8937	.8614	31.7238	4.8490	.0067	1.3000	.0005
74	33	67.8812	.0000	26.8802	2.5253	10.8165	.8614	.5040	1.3000	.0003
75	34	130.2809	.0000	26.8682	4.8489	5.6314	2.5253	.1718	1.3000	.0003
76							4.8489	.0895	1.3000	.0008
77							-0.0006	.0000	1.3000	.0005
78							-0.0000	.0000	1.3000	REVERSED
79							-0.0000	.0000	1.3000	REVERSED
80							-0.0001	.0000	1.3000	.0005
81							-0.0000	.0000		
82	36	.0000	.0000	27.3149	.0000	INF.	-0.0000	.0000		
83	37	.0000	.0000	27.3282	.0000	INF.	-0.0000	.0000		
84							-0.0000	.2526	1.4000	REVERSED
85							-21.14	.1970	1.0500	.0026
86							.4278	.1955	1.0500	.0026
87							.4913	.1900	1.0500	.0026
88							-0.0000	.2058	1.4000	REVERSED
89							1.1223	.1499	1.0500	.0026
90							1.3994	.1372	1.0500	.0026
91							2.4983	.0894	1.0500	.0026
92							-0.0000	.2221	1.4000	REVERSED
93							-0.0000	.2212	1.9000	.0002
94	38	4.8407	.0000	24.3267	.1990	122.2735	.1990	.0212	1.9000	.0002
95	39	4.8263	.0000	24.2927	.1987	122.2966	.1987	.0212	1.9000	.0002
96	40	4.7305	.0000	24.2438	.1951	122.3053	.1951	.0538	1.9000	.0006
97							1.5917	.3479		
98	41	46.7054	.0000	27.6086	1.6517	16.6880	2.5110	.2476		
99	42	69.2430	.0000	27.5753	2.5110	11.2292	1.3550	.4582		
100	43	37.3090	.0000	27.5336	1.3550	20.7776	1.3550	.0073		
101							6.1461	.0117		
102							14.9008	.0189		
103							24.9120	.0000	1.0500	.0003

Figure 6.2-32. - Continued

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Figure 6.2-32. - Continued

161	73	1	457.4292	.0000	27.7642	16.4755	1.7494	16.4755	.0642			
162	74	1	29.9771	.0000	27.7822	1.0790	26.7147	1.0790	.9666			
163	75	1	24.8150	.0000	27.5765	.8999	31.6385	.8999	.9929	.3500	.0002	
164	76	1	8.8427	.0000	27.5805	.3206	88.8033	.3206	2.7795	.3500	.0003	
165	77	1	22.1200	.0000	27.5816	.8020	35.5060	.8020	1.1139	.3500	.0003	
166		1							.0000	1.0500	REVERSED	
167		1							.0000	1.0500	REVERSED	
168		1							6.1522	.0000	.0002	
169		1							3.5513	.0000	.0002	
170		1							1.3914	.0000	.0003	
171		1							.0000	.0000	REVERSED	
172	78	1	96.7226	.0000	27.2321	3.5518	7.8189	.0000	.0000	1.0500	REVERSED	
173	79	1	37.9013	.0000	27.2304	1.3919	19.9549	3.5518	.1517			
174	80	1	167.5545	.0000	27.2306	6.1525	4.5143	1.3919	.3910			
175	81	1	.0000	.0000	27.1702	.0000	INF.	6.1525	.0878			
176	82	1	.0000	.0000	27.1717	.0000	INF.	.0000	.0000	1.6500	.0005	
177	83	1	.0000	.0000	27.1752	.0000	INF.	.0000	.0000	1.6500	.0005	
178		1							.0000	1.6500	.0005	
179		1							15.9676	.0011		
180		1							10.6436	.0010		
181	84	1	371.8480	.0000	27.1232	13.7096	2.0076	11.9568	.0011			
182	85	1	276.8031	.0000	27.1280	10.2036	2.6977	13.7096	.0291	1.3000	.0001	
183	86	1	295.5382	.0000	27.1223	10.8965	2.5256	10.2036	.0389	1.3000	.0001	
184		1							10.8965	.0384	1.3000	.0001
185		1							.2155	.0000	1.3000	.0028
186		1							1.0577	.0000	1.3000	.0021
187		1							.0000	.0000	1.3000	REVERSED
188	88	1	5.8449	.0000	27.1365	.2154	127.7947	2.2561	.0000	1.3000	.0021	
189	89	1	89.8917	.0000	27.1294	3.3134	8.3051	.2154	1.8065			
190		1						3.3134	.1174			
191		1						.0000	.0000	1.3000	REVERSED	
192		1						.2223	.0000	1.3000	.0013	
193	87	1	6.0336	.0000	27.1368	.2223	123.8012	.0000	.0000	1.3000	REVERSED	
194		1						.2223	1.7500			
195		1						.0001	.0217	.3800	.0020	
196		1						.0000	.0410	.3800	.0021	
197		1						.0001	.0217	.3900	.0025	
198		1						.0000	.0410	.3900	.0024	
199		1						.0001	.0217	.3900	.0022	
200		1						.0000	.0410	.3900	.0021	
201		1						.0001	.0217	.3900	.0023	
202		1						.0000	.0410	.3900	.0021	
203		1						.0000	.000			

Figure 6.2-32. - Continued

218	0									.0000	.0070
219	0									.0000	.0062
220	98	1	75.0000	.0000	.0000	.0000	1.3333			.0000	.0000
221	0									.0000	.0000
222	0									.0000	.0000
223	99	0	.0000	.0000	.0000	.0000	INF.			.0000	.0000
224	100	0	.0000	.0000	.0000	.0000	INF.			.0000	.0000
225	0									.0000	.0007
226	0									.0000	.0002
227	0									.0226	.0002
228	1									.0010	.0002
229	1									.0000	.0002
230	101	1	.0000	.0000	29.5458	.0000	INF.			.0000	.0022
231	1									.0000	.0002
232	1									243.3571	.0002
233	1									251.8320	.0002
234	102	0	.0000	.0000	.0000	.0000	INF.			.0000	.1850
235	103	0	.0000	.0000	.0000	.0000	INF.			.0000	.1850
236	104	0	.0000	.0000	.0000	.0000	INF.			.0000	.1850
237	105	0	.0000	.0000	.0000	.0000	INF.			.0000	.1850
240	108	0	.0000	.0000	.0000	.0000	INF.			.0000	.0000

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NODE	1	10	10	.0000	29.3884	29.5065	29.5458	29.3388	29.4562	29.4925	.0000	.0000	.0000
NODE	11	20	20	29.1773	29.1227	28.9983	29.0011	29.10837	28.7512	28.7910	28.8527	28.6351	28.6364
NODE	21	30	30	28.5381	27.5848	27.5857	27.5834	27.5820	28.6282	28.6169	28.6058	.0000	27.3149
NODE	31	40	40	27.3282	28.2310	28.1970	28.1544	29.2892	29.3756	29.4767	28.3186	28.4250	28.4257
NODE	41	50	50	26.2392	.0000	.0000	.0000	28.8403	28.8373	28.8339	27.7854	27.7822	27.7832
NODE	51	60	60	26.4903	26.4873	26.4903	28.8202	28.8217	28.8252	27.7708	27.7747	27.7740	28.8231
NODE	61	70	70	28.8262	28.8206	27.5259	27.5256	27.5184	28.4402	.0000	28.4317	28.4302	.0000
NODE	71	80	80	28.4317	.0000	.0000	29.5458	29.5458	29.5458	.0000	.0000	.0000	.0000

FUEL CELL FUEL CELL FUEL CELL			
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	248.36	251.83	256.54
VOLTAGE	29.53	29.62	29.68
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE			
LOADED	REMAINING	CONSUMED	H2O PROD
(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	2435.16	688.84
H2	368.00	280.66	87.34

*****INVERTER STATUS*****							
*****A.C. BUS*****				*****SINGLE PHASE INVERTER*****			
INVERTER	LOAD	PWR. FAC.	CURRENT	LOAD	PWR. FAC.	CURRENT	D.C. POWER
	(WATT)		(AMP)	(VA)		(AMP)	(WATT)
						EFFICIENCY	RATIO
						PER CENT	

Figure 6.2-32. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 983860.73 AND LOADS 926757.66 924352.42									

Figure 6.2-33.- Circuit solution at 2 days 5 hours 41 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME 53.68444 TIME STEP .00325 NEXT INPUT TIME 53.69833

TOTAL SOURCE POWER 22713.4333 TOTAL DC/AC LOAD 21284.1182 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 19

BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	*LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT
1	1	1										
2	2	1										
3	3	1										
4	4	1										
5	5	1										
6	6	1										
7	7	0										
8	8	0										
9	9	0										
10	10	0										
11	11	0										
12	12	0										
13	13	4										
14	14	5										
15	15	6										
16	16											
17	17											
18	18											
19	19	7										
20	20	8										
21	21	9										
22	22	10										
23	23	11										
24	24											
25	25											
26	26											
27	27	0										
28	28											
29	29	12										
30	30	15										
31	31											
32	32											
33	33											
34	34											
35	35											
36	36	16										
37	37	17										
38	38	18										
39	39											
40	40											
41	41											
42	42											
43	43											

Figure 6.2-33. - Continued

[illegible]

Figure 6.2-33. - Continued

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Figure 6.2-33. - Continued

161	73		457.4261	.0000	27.7630	16.4761	1.7492	16.4761	.0642		
162	74		29.9748	.0000	27.7811	1.0790	26.7145	1.0790	.9666		
163	75		24.8150	.0000	27.5753	.8999	31.6358	.8999	.9929	.3500	.0002
164	76		8.8427	.0000	27.5793	.3206	88.7963	.3206	2.7795	.3500	.0003
165	77		22.1200	.0000	27.5804	.8020	35.5029	.8020	1.1139	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								.0000	.0000	1.0500	REVERSED
168								6.1497	.0000	1.0500	.0002
169								3.5523	.0000	1.0500	.0002
170								1.3921	.0000	1.0500	.0003
171								.0000	.0000	1.0500	REVERSED
172	78		96.7208	.0000	27.2310	3.5519	7.8183	3.5519	.1517		
173	79		37.9013	.0000	27.2292	1.3919	19.9532	1.3919	.3910		
174	80		167.5523	.0000	27.2324	6.1527	4.5139	6.1527	.0878		
175	81		.0000	.0000	27.1690	.0000	INF.	.0000	.0000	1.6500	.0005
176	82		.0000	.0000	27.1705	.0000	INF.	.0000	.0000	1.6500	.0005
177	83		.0000	.0000	27.1740	.0000	INF.	.0000	.0000	1.6500	.0005
178								15.9681	.0011		
179								10.6436	.0010		
180								11.9564	.0011		
181	84		371.8297	.0000	27.1220	13.7095	2.0075	13.7095	.0291	1.3000	.0001
182	85		276.7880	.0000	27.1269	10.2035	2.6976	10.2035	.0389	1.3000	.0001
183	86		295.5221	.0000	27.1211	10.8964	2.5256	10.8964	.0364	1.3000	.0001
184								.2155	.0000	1.3000	.0026
185								1.0573	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								2.2556	.0000	1.3000	.0021
188	88		5.8444	.0000	27.1354	.2154	127.7942	.2154	1.8065		
189	89		89.8842	.0000	27.1283	3.3133	8.3051	3.3133	.1174	1.3000	REVERSED
190								.0000	.0000	1.3000	.0013
191								.2224	.0000	1.3000	REVERSED
192								.0000	.0000	1.3000	REVERSED
193	87		6.0331	.0000	27.1357	.2223	123.8008	.2223	1.7500		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91		.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94		.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96		.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97		.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-33. - Continued

218	0						.0000	.0070		
219	0						.0000	.0062		
220	98	75.0000	.0000	.0000	.0000	1.3333	.0000	.0000		
221	0						.0000	.0000		
222	0						.0000	.0000		
223	99	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
224	103	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
225	0						.0000	.0007		
226	0						.0000	.0002		
227	0						.0226	.0002		
228	0						.0010	.0002		
229	0						.0010	.0002		
230	101	.0000	.0000	29.5445	.0000	INF.	.0000	.0022		
231	0						248.4655	.0002		
232	0						251.9512	.0002		
233	0						266.6318	.0002		
234	102	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007
235	103	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008
236	104	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007
237	105	.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008
240	108	.0000	.0000	.0000	.0000	INF.	.0000	.0000		

356	NODE 1 TO 10	.0000	29.3873	29.5054	29.5446	29.3376	29.4550	29.4912	.0000	.0000	.0000
	NODE 11 TO 20	29.1760	29.1215	28.9971	28.9999	29.0825	28.7501	28.7898	28.8515	28.6333	28.6344
	NODE 21 TO 30	28.6361	27.5829	27.5837	27.5815	27.5801	28.6264	28.6130	28.6018	.0000	27.3135
	NODE 31 TO 40	27.3264	28.2298	28.1956	28.1533	29.2880	29.3745	29.4154	28.3175	28.4238	28.4245
	NODE 41 TO 50	28.2380	.0000	.0000	.0000	28.8392	28.8361	28.8357	27.7843	27.7811	27.7823
	NODE 51 TO 60	26.4892	26.4861	26.4892	28.8190	28.8205	28.8240	27.7697	27.7735	27.7728	28.8219
	NODE 61 TO 70	28.8250	28.8195	27.5247	27.5244	27.5173	28.4390	.0000	28.4305	28.4290	.0000
	NODE 71 TO 80	28.4305	.0000	.0000	29.5445	29.5445	29.5445	.0000	.0000	.0000	.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	248.47	251.95	266.68
VOLTAGE	29.52	29.62	29.68
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE
LOADED REMAINING CONSUMED H2O PROD
(LBS) (LBS) (LBS) (LBS)

02	3124.03	2433.82	690.18	776.46
H2	358.00	280.49	87.51	

*****INVERTER STATUS*****				*****SINGLE PHASE INVERTER*****				CURRENT	D.C.
*****A.C. BUS*****				*****				RATIO	POWER
INVERTER	LOAD	PWR. FAC.	CURRENT	LOAD	PWR. FAC.	CURRENT	EFFICIENCY		(WATT)
(WATT)	(WATT)		(AMP)	(VA)		(AMP)	PER CENT		

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OF POOR QUALITY

Figure 6.2-33. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	508.9333	-.6945	6.3727	540.6052	-.9414	4.7009	.7650	.7377	665.2723
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	368.4800	-.7582	4.2260	369.5519	.9971	3.2135	.7650	.7604	481.6732
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	457.7333	-.7135	5.5784	469.5019	-.9749	4.0826	.7650	.7319	598.3442
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3358	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 985746.33 AND LOADS 928524.37 926112.96									

Figure 6.2-34.- Circuit solution at 2 days 5 hours 46 minutes 4 seconds

***** DC DISTRIBUTION NETWORK STATUS *****													
MISSION ELAPSED TIME 53.76778 TIME STEP .00556 NEXT INPUT TIME 53.81222													
TOTAL SOURCE POWER 22665.7842 TOTAL DC/AC LOAD 21240.8354 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	
1													
2													
3	29.53	247.98						247.9752	.0006				
4	29.63	251.43						251.4341	.0005				
5	29.68	265.95						265.9497	.0005				
6			.0000	.0000	29.3923	.0000	INF.	.0000	.0000				
7			.0000	.0000	29.5104	.0000	INF.	.0000	.0000				
8			.0000	.0000	29.5508	.0000	INF.	.0000	.0000				
9								.0000	.0000				
10								.0000	.0000				
11								.0000	.0000				
12								.0000	.0000				
13								.0000	.0000				
14			.0000	.0000	29.3427	.0000	INF.	.0000	.0000				
15			11.4000	.0900	27.9578	.4078	72.2493	.0000	.0000				
16			.0000	.0000	29.4978	.0000	INF.	.4078	3.6842				
17								.0000	.0000				
18								30.9950	.0016				
19								55.5461	.0014				
20			28.4477	.0000	27.8432	.9499	30.8910	10.8187	.0015				
21			37.9858	.0000	27.9595	1.3586	21.6842	.9499	1.5786				
22			32.7478	.0000	27.9976	1.1697	25.2189	1.3586	1.1045				
23			167.0356	.0000	27.8487	5.9980	4.8921	1.1697	1.2824				
24			106.9947	.0000	27.9813	3.8265	7.6950	5.9980	.2491				
25								3.8265	.3916				
26								9.9543	.0317				
27								11.8591	.0312				
28								.0000	.3900				
29								.0000	.3900				
30			604.0383	.0000	28.3709	21.2908	1.3681	9.4318	.0058				
31			14.8573	.0000	28.4380	.5224	55.8571	21.2908	.0356				
32								.5224	1.4247				
33								18.5875	.0183				
34								22.1051	.0206				
35								20.9864	.0195				
36			365.5766	.0000	28.2483	12.9416	2.2410	12.9416	.0583				
37			435.4742	.0000	28.2504	15.4148	1.8817	15.4148	.0490				
38			320.5619	.0000	28.3362	11.3128	2.5713	11.3128	.0665				
39								5.6952	.0074	.2000	.0009		
40								3.1122	.0126	.2000	.0016		
41								5.9461	.0091	.2000	.0008		
42								6.5632	.0074	.2000	.0009		
43									.0126	.2000	.0013		

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Figure 6.2-34. - Continued

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Figure 6.2-34. - Continued

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Figure 6.2-34. - Continued

161	73	1	457.4267	.0000	27.7632	16.4760	1.7493	16.4760	.0642		
162	74	1	29.5751	.0000	27.7813	1.0790	26.7146	1.0790	.9666		
163	75	1	24.8130	.0000	27.5756	.8999	31.6385	.8999	.9929	.3500	.0002
164	76	1	8.8427	.0000	27.5795	.3206	88.7977	.3206	2.7795	.3500	.0003
165	77	1	22.1200	.0000	27.5805	.8020	35.5033	.8020	1.1139	.3500	.0003
166									.0000	1.0500	REVERSED
167									.0000	1.0500	REVERSED
168									.0000	1.0500	.0002
169									6.1522	1.0500	.0002
170									3.5513	1.0500	.0003
171									1.3928	1.0500	.0003
172									.0000	1.0500	REVERSED
173	78	1	96.7211	.0000	27.2312	3.5518	7.8184	3.5518	.1517		
174	79	1	37.9013	.0000	27.2294	1.3919	19.9535	1.3919	.3910		
175	80	1	167.5526	.0000	27.2326	6.1527	4.5140	6.1527	.0878		
176	81	1	.0000	.0000	27.1693	.0000	INF.	.0000	.0000	1.6500	.0005
177	82	1	.0000	.0000	27.1708	.0000	INF.	.0000	.0000	1.6500	.0005
178	83	1	.0000	.0000	27.1742	.0000	INF.	.0000	.0000	1.6500	.0005
179								15.9895	.0011		
180								10.8436	.0010		
181								11.9340	.0011		
182	84	1	371.8340	.0000	27.1223	13.7095	2.0075	13.7095	.0291	1.3000	.0001
183	85	1	276.7910	.0000	27.1271	10.2035	2.6976	10.2035	.0389	1.3000	.0001
184	86	1	295.5247	.0000	27.1213	10.8964	2.5258	10.8964	.0364	1.3000	.0001
185								1.0361	.0000	1.3000	.0028
186								.0000	.0000	1.3000	.0021
187								.0000	.0000	1.3000	REVERSED
188								2.2775	.0000	1.3000	.0021
189	88	1	5.8445	.0000	27.1356	.2154	127.7943	.2154	1.8065		
190	89	1	89.8857	.0000	27.1285	3.3133	8.3051	3.3133	.1174		
191								.0000	.0000	1.3000	REVERSED
192								.2219	.0000	1.3000	.0013
193								.0000	.0000	1.3000	REVERSED
194	27	1	6.0332	.0000	27.1359	.2223	123.8009	.2223	1.7500		
195								.0001	.0217	.3800	.0020
196								.0000	.0410	.3800	.0021
197								.0001	.0217	.3900	.0025
198								.0000	.0410	.3900	.0024
199								.0001	.0217	.3900	.0022
200								.0000	.0410	.3900	.0021
201								.0000	.0000	1.0500	.0053
202								.0000	.1460	1.0500	.0053
203								.0000	.0000	1.0500	.0053
204								.0000	.1460	1.0500	.0053
205			.0000	.0000	.0000	.0000	INF.	.0000	.1340		
206	90	0						.0000	.1310	.2000	.0023
207								.0000	.1310	.2000	.0023
208			.0000	.0000	.0000	.0000	INF.	.0000	.0000		
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
212								.0000	.1310	.2000	.0023
213								.0000	.0000		
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-34. - Continued

218		0				.0000	.0070		
219		0				.0000	.0062		
220	98	0	75.0000	.0000	.0000	.0000	1.3333		
221		0				.0000	.0000		
222		0				.0000	.0000		
223	99	0	.0000	.0000	.0000	.0000	INF.		
224	100	0	.0000	.0000	.0000	.0000	INF.		
225		0				.0000	.0000		
226		0				.0000	.0007		
227		0				.0000	.0002		
228		0				.0155	.0002		
229		0				.0000	.0002		
230	101	0	.0000	.0000	29.5508	.0000	INF.		
231		0				.0000	.0002		
232		0				247.9768	.0002		
233		0				251.4362	.0002		
234	102	0	.0000	.0000	.0000	.0000	.0002		
235	103	0	.0000	.0000	.0000	.0000	.1850	.6500	.0007
236	104	0	.0000	.0000	.0000	.0000	.1850	.6500	.0008
237	105	0	.0000	.0000	.0000	.0000	.1850	.6500	.0007
240	108	0	.0000	.0000	.0000	.0000	.1850	.6500	.0008

NODE	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
NODE	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
NODE	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
NODE	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
NODE	1	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
NODE	1	10	20	30																																																																																																	

	FUEL CELL	FUEL CELL	FUEL CELL
	1	2	3
SOURCE SWITCH CON	1	1	1
CURRENT	247.98	251.43	265.95
VOLTAGE	29.53	29.63	29.68
PARASITIC	.0000	.0000	.0000
WEP	180.0000	180.0000	180.0000
SOH			
AM REMAIN			

CRYOGEN USAGE			
LOADED	REMAINING	CONSUMED	H2O PROD
(LBS)	(LBS)	(LBS)	(LBS)
3124.00	2432.48	691.52	777.97
368.00	280.32	87.68	

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
*****C. BUS*****									
*****SINGLE PHASE INVERTER*****									

Figure 6.2-34. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.4957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.4935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	562.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 987635.02 AND LOADS 930293.41 927875.84									

Figure 6.2-35.- Circuit solution at 2 days 5 hours 51 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME 53.85111 TIME STEP .03889 NEXT INPUT TIME 53.93444
TOTAL SOURCE POWER 22629.4504 TOTAL DC/AC LOAD 21392.2197 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6

BRANCH NO	RN	SV	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT
1	1	1	29.52	249.37						249.3747	.0006			
2	2	1	29.61	252.82						252.8171	.0005			
3	3	1	29.66	269.14						269.1439	.0005			
4	1	1			.0000	.0000	29.3781	.0000	INF.	.0000	.0000			
5	2	1			.0000	.0000	29.4970	.0000	INF.	.0000	.0000			
6	3	1			.0000	.0000	29.5236	.0000	INF.	.0000	.0000			
7		0								.0000	.0003			
8		0								.0000	.0002			
9		0								.0000	.0005			
10		0								.0000	.0016			
11		0								.0000	.0002			
12		0								.0000	.0009			
13	4	1			.0000	.0000	29.3282	.0000	INF.	.0000	.0000			
14	5	1			11.4000	.0000	27.9434	.4080	72.1786	.4080	3.6842			
15	6	1			.0000	.0000	29.4698	.0000	INF.	.0000	.0000			
16		0								31.0577	.0016			
17		0								55.6125	.0014			
18		0								16.4112	.0015			
19	7	1			26.4332	.0000	27.8288	.9496	30.8768	.9496	1.5786			
20	8	1			37.9718	.0000	27.9457	1.3588	21.6714	1.3588	1.1045			
21	9	1			32.6995	.0000	27.9706	1.1691	25.2080	1.1691	1.2824			
22	10	1			166.8902	.0000	27.8348	5.9957	4.8915	5.9957	.2491			
23	11	1			106.9169	.0000	27.9483	3.8253	7.6978	3.8253	.3916			
24		0								9.9460	.0317			
25		0								11.6516	.0312			
26		0								.0000	.3900			
27		0								.0000	.3900			
28		0								9.4252	.0058			
29	12	1			603.0660	.0000	28.3439	21.2768	1.3677	21.2768	.0356			
30	13	1			14.8498	.0000	28.4101	.5227	55.7776	.5227	1.4247			
31		0								18.6551	.0183			
32		0								22.2628	.0206			
33		0								20.7619	.0195			
34		0								12.9371	.0583			
35	16	1			365.2495	.0000	28.2327	12.9371	2.2406	12.9371	.0490			
36	17	1			435.0351	.0000	28.2339	15.4083	1.8814	15.4083	.0665			
37	18	1			320.2344	.0000	28.3130	11.3105	2.5697	11.3105	.0665			
38		0								5.7182	.0074	.2000	.0009	
39		0								.9249	.0126	.2000	.0016	
40		0								3.1148	.0091	.2000	.0008	
41		0								5.9297	.0074	.2000	.0009	
42		0								6.3366	.0126	.2000	.0016	
43		0												

Figure 6.2-35. - Continued

305

Figure 6.2-35. - Continued

366

Figure 6.2-35. - Continued

161	73	1	457.3823	.0000	27.7458	16.4847	1.7473	16.4847	.0642		
162	74	1	29.9417	.0000	27.7647	1.0784	26.7126	1.0784	.9666		
163	75	1	24.8130	.0000	27.5582	.9005	31.5979	.9005	.9929	.3500	.0002
164	76	1	8.8418	.0000	27.5622	.3208	88.6989	.3208	2.7795	.3500	.0003
165	77	1	22.1200	.0000	27.5629	.8025	35.4593	.8025	1.1139	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								.0000	.0000	1.0500	REVERSED
168								6.1510	.0000	1.0500	.0002
169								3.5523	.0000	1.0500	.0002
170								1.3921	.0000	1.0500	.0003
171								.0000	.0000	1.0500	REVERSED
172	78	1	96.6962	.0000	27.2142	3.5531	7.8108	3.5531	.1517		
173	79	1	37.9002	.0000	27.2120	1.3928	19.9290	1.3928	.3910		
174	80	1	167.5210	.0000	27.2152	6.1554	4.5092	6.1554	.0878		
175	81	1	.0000	.0000	27.1525	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.1539	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.1571	.0000	INF.	.0000	.0000	1.6500	.0005
178								16.0334	.0011		
179								10.6417	.0010		
180								11.8868	.0011		
181	84	1	371.5746	.0000	27.1054	13.7085	2.0064	13.7085	.0291	1.3000	.0001
182	85	1	276.5777	.0000	27.1104	10.2019	2.6964	10.2019	.0389	1.3000	.0001
183	86	1	295.2925	.0000	27.1043	10.8947	2.5244	10.8947	.0364	1.3000	.0001
184								.2154	.0000	1.3000	.0028
185								.9899	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								2.3217	.0000	1.3000	.0021
188	88	1	5.8377	.0000	27.1190	.2153	127.7874	.2153	1.8065		
189	89	1	89.7799	.0000	27.1118	3.3115	8.3046	3.3115	.1174		
190								.0000	.0000	1.3000	REVERSED
191								.2223	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	6.0262	.0000	27.1193	.2222	123.7941	.2222	1.7500		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-35. - Continued

218	0					.0000	.0070		
219	0					.0000	.0062		
220	98	1	75.0000	.0000	.0000	.0000	1.3333	.0000	
221	0					.0000	.0000	.0000	
222	0					.0000	.0000	.0000	
223	99	0	.0000	.0000	.0000	.0000	INF.	.0000	
224	100	0	.0000	.0000	.0000	.0000	INF.	.0000	
225	0					.0000	.0000	.0007	
226	0					.0000	.0000	.0002	
227	0					.0000	.0000	.0002	
228	0					.0021	.0000	.0002	
229	0					.0000	.0000	.0002	
230	101	1	.0000	.0000	29.5236	.0000	INF.	.0022	
231	1							.0002	
232	1							.0002	
233	1							.0002	
234	102	0	.0000	.0000	.0000	.0000	INF.	.0000	
235	103	0	.0000	.0000	.0000	.0000	INF.	.0000	
236	104	0	.0000	.0000	.0000	.0000	INF.	.0000	
237	105	0	.0000	.0000	.0000	.0000	INF.	.0000	
240	108	0	.0000	.0000	.0000	.0000	INF.	.0000	

NODE	11	TO	10	29.0000	29.3781	29.4970	29.5236	29.3282	29.4465	29.4698	28.0000	28.0000	28.0000
NODE	11	TO	20	29.1547	29.1003	28.9866	28.9884	29.0650	28.7391	28.7753	28.8341	28.6250	28.7300
NODE	21	TO	30	28.6276	27.5746	27.5753	27.5731	27.5717	28.6181	28.6046	28.5553	28.0000	28.7300
NODE	31	TO	40	28.3288	28.0000	28.1746	28.1438	28.2109	28.3091	28.2749	28.2749	28.0000	28.7300
NODE	41	TO	50	28.3288	28.0000	28.0000	28.0000	28.82237	28.8195	28.8159	28.7677	28.7643	28.7653
NODE	51	TO	60	28.4727	26.4695	26.4727	28.8025	28.8039	28.8071	27.7531	27.7566	27.7559	28.8054
NODE	61	TO	70	28.8085	28.8026	27.5082	27.5078	27.5006	28.4225	28.4225	28.4139	28.4125	28.0000
NODE	71	TO	80	28.4139	28.0000	28.0000	29.5236	29.5236	29.5236	29.5236	28.0000	28.0000	28.0000

	FUEL CELL	FUEL CELL	FUEL CELL
	1	2	1
SOURCE			
SWITCH CON			
CURRENT	249.37	252.82	269.1
VOLTAGE	29.52	29.61	29.6
PARASITIC	.0000	.0000	.000
TEMP	180.0000	180.0000	180.000
SOC			
AL REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	2431.14	692.86	779.48
H2	368.00	280.15	87.85	

*****INVERTER STATUS*****									
*****SINGLE PHASE INVERTER*****									
INVERTER	LOAD (WATT)	P.W.P. FAC.	CURRENT (AMP)	LOAD (VA)	P.W.R. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
1	100	0.95	1.0	100	0.95	1.0	95	1.0	100
2	200	0.95	2.0	200	0.95	2.0	95	1.0	200
3	300	0.95	3.0	300	0.95	3.0	95	1.0	300
4	400	0.95	4.0	400	0.95	4.0	95	1.0	400
5	500	0.95	5.0	500	0.95	5.0	95	1.0	500
6	600	0.95	6.0	600	0.95	6.0	95	1.0	600
7	700	0.95	7.0	700	0.95	7.0	95	1.0	700
8	800	0.95	8.0	800	0.95	8.0	95	1.0	800
9	900	0.95	9.0	900	0.95	9.0	95	1.0	900
10	1000	0.95	10.0	1000	0.95	10.0	95	1.0	1000

Figure 6.2-35. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3389	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 989530.18 AND LOADS 932068.87 929645.12									

Figure 6.2-36.- Circuit solution at 2 days 5 hours 56 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 53.93444 TIME STEP .08333 NEXT INPUT TIME 53.98722													
TOTAL SOURCE POWER 22829.4504 TOTAL DC/AC LOAD 21392.2197 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	

1	29.52	249.37						249.3747	.0006				
2	29.61	252.82						252.8171	.0005				
3	29.66	269.14						269.1439	.0005				
4			.0000	.0000	29.3781	.0000	INF.	.0000	.0000				
5			.0000	.0000	29.4970	.0000	INF.	.0000	.0000				
6			.0000	.0000	29.5236	.0000	INF.	.0000	.0000				
7								.0000	.0003				
8								.0000	.0002				
9								.0000	.0005				
10								.0000	.0016				
11								.0000	.0002				
12								.0000	.0009				
13			.0000	.0000	29.3282	.0000	INF.	.0000	.0000				
14			11.4000	.0000	27.9434	.4080	72.1786	.0000	.0000				
15			.0000	.0000	29.4698	.0000	INF.	.0000	3.6842				
16								.0000	.0000				
17								31.0577	.0016				
18								55.6125	.0014				
19								16.4112	.0015				
20			26.8352	.0000	27.8288	.9498	30.8768	.9498	1.5786				
21			37.9718	.0000	27.9857	1.3588	21.6718	1.3588	1.1045				
22			32.6905	.0000	27.9706	1.1691	25.2080	1.1691	1.2824				
23			166.8902	.0000	27.8348	5.9957	4.8915	5.9957	.2491				
24			106.9109	.0000	27.9483	3.8253	7.6978	3.8253	.3916				
25								9.9480	.0317				
26								11.8516	.0312				
27								.0000	.3900				
28								.0000	.3900				
29			603.0660	.0000	28.3439	21.2768	1.3677	9.4252	.0056				
30			14.8498	.0000	28.4101	.5227	55.7776	21.2768	.0356				
31								.5227	1.4247				
32								18.6551	.0183				
33								22.2628	.0206				
34								20.7619	.0195				
35			365.2495	.0000	28.2327	12.9371	2.2406	12.9371	.0583				
36			438.0351	.0000	28.2339	15.4083	1.8814	15.4083	.0490				
37			320.2344	.0000	28.3130	11.3105	2.5697	11.3105	.0665				
38								5.7182	.0074	.2000	.0009		
39								.9249	.0126	.2000	.0016		
40								3.1148	.0091	.2000	.0008		
41								5.9297	.0074	.2000	.0009		
42								6.3366	.0126	.2000	.0016		
43													

ORIGINAL PAGE IS
OF POOR QUALITY

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Figure 6.2-36. - Continued

44	19	327.1925	.0000	28.0908	11.6477	2.4674	-0.0000	.0091	.2000	REVERSED
45	20	204.2800	.0000	28.1275	7.2612	3.9629	11.6477	.0557		
46	21	87.8000	.0000	28.1884	3.1148	9.2572	7.2612	.0892		
47							3.1148	.2073		
48							123.5942	.0057		
49							115.9378	.0071		
50							174.2959	.0048		
51	22	410.7929	.0000	27.3398	15.0254	1.8818	15.0254	.0620	.3500	.0002
52	23	412.9437	.0000	27.3409	15.1035	1.8722	15.1035	.0617	.3500	.0002
53	24	787.0637	.0000	27.3274	28.8013	.9818	28.8013	.0328	.3500	.0002
54	25	2064.7159	.0000	28.2705	73.0342	.3918	73.0342	.0049		
55	26	1364.6928	.0000	28.3928	48.0647	.5956	48.0647	.0049		
56	27	1954.9503	.0000	28.2923	69.0984	.4143	69.0984	.0049		
57							1.9480	.0000	1.0500	.0002
58							3.3723	.0000	1.0500	.0002
59							7.9482	.0000	1.0500	.0005
60							7.2625	.0000	1.0500	.0002
61							10.2442	.0000	1.0500	.0005
62							3.2556	.0000	1.0500	.0005
63	28	248.3639	.0000	26.9797	9.2056	2.9954	9.2056	.0646		
64	29	367.2560	.0000	26.9845	13.6099	2.0261	13.6099	.0434		
65	30	302.2568	.0000	26.9846	11.2011	2.4616	11.2011	.0525		
66							39.5922	.0000	1.0500	.0001
67							29.4465	.0000	1.0500	.0001
68							53.3360	.0000	1.0500	.0001
69	31	3300.3109	.0000	26.9701	122.3694	.2253	122.3694	.0049		
70							.8639	.0079		
71							2.5285	.0085		
72							4.8473	.0067		
73	32	23.1509	.0000	26.8837	.8611	31.7229	.8611	.5040	1.3000	.0005
74	33	67.8317	.0000	26.8701	2.5244	10.8162	2.5244	.1718	1.3000	.0003
75	34	130.1841	.0000	26.8579	4.8471	5.6312	4.8471	.0895	1.3000	.0008
76							-0.0001	.0000	1.3000	.0005
77							-0.0000	.0000	1.3000	REVERSED
78							-0.0000	.0000	1.3000	REVERSED
79							-0.0016	.0000	1.3000	.0005
80							-0.0000	.0000		
81							-0.0000	.0000		
82	35	.0000	.0000	27.3046	.0000	INF.	-0.0000	.0000		
83	36	.0000	.0000	27.3181	.0000	INF.	-0.0000	.0000		
84							-0.0000	.0000		
85							-0.0000	.0000	1.4000	REVERSED
86							.2526	.1970	1.0500	.0026
87							.2801	.1955	1.0500	.0026
88							.4252	.1900	1.0500	.0026
89							.541	.1900	1.0500	.0026
90							-0.0000	.0000	1.4000	REVERSED
91							1.1244	.1499	1.0500	.0026
92							1.3353	.1372	1.0500	.0026
93							2.4275	.0894	1.0500	.0026
94							-0.0000	.0000	1.4000	REVERSED
95							-0.0000	.0000	1.9000	.0002
96	37	4.8315	.0000	24.3049	.1988	122.2883	.1988	.0212	3.9000	.0002
97	38	4.8160	.0000	24.2684	.1984	122.3135	.1984	.0212	3.9000	.0002
98	39	4.7262	.0000	24.2337	.1950	124.3126	.1950	.0548	3.9000	.0006
99	40	46.6372	.0000	27.5872	1.6905	16.6865	1.6905	.3679		
100	41	69.1301	.0000	27.5514	2.5091	11.2280	2.5091	.2476		
101	42	37.2836	.0000	27.5236	1.3546	20.7768	1.3546	.4582		
102							6.1206	.0073		
103							53.4110	.0117		
							34.6568	.0189		
							24.9205	.0000	1.0500	.0003

Figure 6.2-36. - Continued

104																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</
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Figure 6.2-36. - Continued

161	73	1	457.3823	.0000	27.7458	16.4847	1.7473	16.4847	.0642		
162	74	1	29.9417	.0000	27.7647	1.0784	26.7126	1.0784	.9666		
163	75	1	24.8150	.0000	27.5582	.9005	31.5979	.9005	.9929	.3500	.0002
164	76	1	8.8418	.0000	27.5622	.3208	88.6989	.3208	2.7795	.3500	.0003
165	77	1	22.1200	.0000	27.5629	.8025	35.4523	.8025	1.1139	.3500	.0003
166		1						.0000	.0000	1.0500	REVERSED
167		1						.0000	.0000	1.0500	REVERSED
168		1						6.1510	.0000	1.0500	.0002
169		1						3.5523	.0000	1.0500	.0002
170		1						1.3921	.0000	1.0500	.0003
171		1						.0000	.0000	1.0500	REVERSED
172	78	1	96.6962	.0000	27.2142	3.5531	7.8108	3.5531	.1517		
173	79	1	37.9002	.0000	27.2120	1.3928	19.9290	1.3928	.3910		
174	80	1	167.5210	.0000	27.2152	6.1554	4.5092	6.1554	.0878		
175	81	1	.0000	.0000	27.1525	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	27.1539	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	27.1571	.0000	INF.	.0000	.0000	1.6500	.0005
178		1						16.0334	.0011		
179		1						10.6417	.0010		
180		1						11.8868	.0011		
181	84	1	371.5746	.0000	27.1054	13.7085	2.0064	13.7085	.0291	1.3000	.0001
182	85	1	276.5777	.0000	27.1104	10.2019	2.6964	10.2019	.0389	1.3000	.0001
183	86	1	295.2925	.0000	27.1043	10.8947	2.5244	10.8947	.0364	1.3000	.0001
184		1						.2154	.0000	1.3000	.0028
185		1						.9899	.0000	1.3000	.0021
186		1						.0000	.0000	1.3000	REVERSED
187		1						2.3217	.0000	1.3000	.0021
188	88	1	5.8377	.0000	27.1190	.2153	127.7874	.2153	1.8065		
189	89	1	89.7799	.0000	27.1118	3.3115	8.3046	3.3115	.1174		
190		1						.0000	.0000	1.3000	REVERSED
191		1						.2223	.0000	1.3000	.0013
192		1						.0000	.0000	1.3000	REVERSED
193	87	1	6.0262	.0000	27.1193	.2222	123.7941	.2222	1.7500		
194		1						.0001	.0217	.3800	.0020
195		1						.0000	.0410	.3800	.0021
196		1						.0001	.0217	.3900	.0025
197		1						.0000	.0410	.3900	.0024
198		1						.0001	.0217	.3900	.0022
199		1						.0000	.0410	.3900	.0021
200		1						.0001	.0217	.3900	.0023
201		1						.0000	.0410	.3900	.0021
202		1						.0000	.0000	1.0500	.0053
203		1						.0000	.1460	1.0500	.0053
204		1						.0000	.0000	1.0500	.0053
205		1						.0000	.1460	1.0500	.0053
206	90	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207		1						.0000	.1310	.2000	.0023
208		1						.0000	.1310	.2000	.0023
209	91	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212		1						.0000	.1310	.2000	.0023
213	94	1	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
214		1						.0000	.0000		
215	95	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-36. - Continued

[illegible]

NODE	1	TO	10	.0000	29.3781	29.4970	29.5236	29.3282	29.4465	29.4698	.0000	.0000	.0000
NODE	11	TO	20	29.1547	29.1003	28.9866	28.9884	29.0650	28.7391	28.7753	28.6341	28.6250	28.6261
NODE	21	TO	30	28.6276	27.5746	27.5753	27.5731	29.5717	28.6181	28.6046	28.5953	28.5900	27.7046
NODE	31	TO	40	27.3181	28.2091	28.1726	28.1443	29.2785	28.3658	28.4458	28.3088	28.3942	28.3949
NODE	41	TO	50	28.2285	.0000	.0000	.0000	28.8227	28.6195	28.8158	27.7677	27.7643	27.7653
NODE	51	TO	60	26.4727	26.4695	26.4727	28.8025	28.8039	28.6071	27.7531	27.7566	27.7559	28.8054
NODE	61	TO	70	28.8085	28.8026	27.5082	27.5078	27.5006	28.4225	.0000	28.4139	28.4125	.0000
NODE	71	TO	80	28.4139	.0000	.0000	29.5236	29.5236	29.5236	.0000	.0000	.0000	.0000

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	249.37	252.82	269.14
VOLTAGE	29.52	29.61	29.66
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
07	3124.00	2429.78	694.22	781.01
P2	368.00	279.98	88.02	

	A.C.	BUS	*****INVERTER STATUS*****	SINGLE PHASE INVERTER*****	CURRENT RATIO	D.C. POWER (WATT)
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA) PWR. FAC.	CURRENT (AMP) EFFICIENCY PER CENT	

Figure 6.2-36. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7619	746.4586
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7472	680.9586
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2986

A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646

2A	347.2800	-.7433	4.0629	348.7910	-.9957	3.0330	.7650	.7465	453.9606
2B	328.7100	-.7303	3.9140	330.8440	-.9935	2.8769	.7650	.7350	429.6681
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457

A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650

3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0914	-.9688	4.3399	.7650	.7412	632.0699
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331

A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645

ACCUMULATED WATT-HRS OF SOURCES	991432.62	AND LOADS	933851.27	931421.34
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Figure 6.2-37.- Circuit solution at 2 days 5 hours 59 minutes 14 seconds (Entry interface)

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME 53.98722 TIME STEP .05278 NEXT INPUT TIME 54.01778													
TOTAL SOURCE POWER 24231.5850 TOTAL DC/AC LOAD 22583.4978 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 7													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	DIODE OR RPC RESISTANCE	SHUNT	

1	29.28	276.12						276.1205	.0006				
2	29.51	264.64						264.6434	.0005				
3	29.55	282.15						282.1514	.0005				
4			.0000	.0000	29.1278	.0000	INF.	.0000	.0000				
5			.0000	.0000	29.3828	.0000	INF.	.0000	.0000				
6			.0000	.0000	29.4131	.0000	INF.	.0000	.0000				
7								.0000	.0003				
8								.0000	.0002				
9								.0000	.0005				
10								.0000	.0016				
11								.0000	.0002				
12								.0000	.0009				
13			.0000	.0000	29.0722	.0000	INF.	.0000	.0000				
14			11.4000	.0000	27.8201	.4098	71.5756	.4098	3.6842				
15			.0000	.0000	29.3567	.0000	INF.	.0000	.0000				
16								89.4636	.0016				
17								55.9134	.0014				
18								15.7591	.0015				
19			20.3670	.0000	27.5804	.7385	39.3688	.7385	2.0202				
20			26.9613	.0000	27.8302	.9688	30.2751	.9688	1.5480				
21			29.4991	.0000	27.8618	1.0588	27.7274	1.0588	1.4119				
22			153.1090	.0000	27.5913	5.5492	5.2390	5.5492	.2669				
23			94.9644	.0000	27.8375	3.4114	8.5976	3.4114	.4375				
24								9.7100	.0317				
25								11.6391	.0312				
26								.0000	.3900				
27								.0000	.3900				
28								9.5832	.0058				
29			599.3083	.0000	28.2393	21.2224	1.3662	21.2224	.0356				
30			3.5778	.0000	28.2904	.1265	229.6988	.1265	6.0000				
31								15.7898	.0183				
32								24.1895	.0206				
33								21.6751	.0195				
34								12.8784	.0583				
35			361.0150	.0000	28.0325	12.8784	2.2350	12.8784	.0490				
36			430.9705	.0000	28.0806	15.3476	1.8786	15.3476	.0665				
37			318.4068	.0000	28.1830	11.2976	2.5611	11.2976	.0074	.2000	.0009		
38								2.9115	.0074	.2000	.0016		
39								.0419	.0126	.2000	.0008		
40								3.1296	.0091	.2000	.0009		
41								8.7998	.0074	.2000	.0009		
42								7.2477	.0126	.2000	.0016		
43													

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OF POOR QUALITY

Figure 6.2-37. - Continued

44	19	326.8293	.0000	27.9071	11.7113	2.4386	11.7113	.0091	.2000	REVERSED
45	20	203.9694	.0000	27.9812	7.2895	3.9278	7.2895	.0557		
46	21	87.8000	.0000	28.0543	3.1296	9.1714	3.1296	.0892		
47							107.8306	.2073		
48							122.6798	.0057		
49							184.8641	.0071		
50		406.9269	.0000	27.1729	14.9754	1.8770	14.9754	.0048		
51	22	394.4214	.0000	27.1751	14.5140	1.9369	14.5140	.0623	.3500	.0002
52	23	789.0386	.0000	27.1594	29.0520	.9677	29.0520	.0643	.3500	.0002
53	24	2064.7159	.0000	28.1021	73.4716	.3873	73.4716	.0327	.3500	.0002
54	25	1364.6928	.0000	28.2271	48.3467	.5887	48.3467	.0049		
55	26	1954.9503	.0000	28.1262	69.5062	.4095	69.5062	.0049		
56	27							.0000	1.0500	REVERSED
57							2.9085	.0000	1.0500	.0002
58							9.9003	.0000	1.0500	.0005
59							9.7448	.0000	1.0500	.0002
60							10.7492	.0000	1.0500	.0002
61							1.3291	.0000	1.0500	.0005
62							9.2451	.0646		
63	28	247.8826	.0000	26.8123	9.2451	2.9648	9.2451	.0434		
64	29	366.1393	.0000	26.8184	13.6525	2.0078	13.6525	.0525		
65	30	301.1361	.0000	26.8180	11.2288	2.4408	11.2288	.0000	1.0500	.0001
66							45.1257	.0000	1.0500	.0001
67							17.1722	.0000	1.0500	.0001
68							60.8072	.0000		
69	31	3299.8870	.0000	26.8014	123.1232	.2226	123.1232	.0049		
70							.8577	.0079		
71							2.5120	.0085		
72							4.8201	.0067		
73	32	22.8793	.0000	26.7199	.8563	31.7098	.8563	.5040	1.3000	.0005
74	33	66.9958	.0000	26.7083	2.5084	10.8198	2.5084	.1720	1.3000	.0003
75	34	128.6757	.0000	26.6964	4.8199	5.6290	4.8199	.0895	1.3000	.0008
76								.0000	1.3000	.0005
77								.0000	1.3000	REVERSED
78								.0000	1.3000	REVERSED
79								.0000	1.3000	.0005
80								.0000		
81								.0000		
82								.0000		
83	36	.0000	.0000	27.1404	.0000	INF.		.0000		
84	37	.0000	.0000	27.1519	.0000	INF.		.0000		
85								.0000		
86								.2526	1.4000	REVERSED
87								.1970	1.0500	REVERSED
88								.1955	1.0500	REVERSED
89								.1900	1.0500	.0026
90								.5362	1.4000	REVERSED
91								.2058	1.0500	.0026
92								.1499	1.0500	.0026
93								.1372	1.0500	.0026
94								.0894	1.0500	.0026
95								.2221	1.4000	.0002
96	38	4.7832	.0000	24.1912	.1977	122.3691	.1977	.0212	3.9000	.0002
97	39	4.7579	.0000	24.1316	.1972	122.4144	.1972	.0212	3.9000	.0002
98	40	4.6591	.0000	24.0731	.1935	124.4372	.1935	.0538	3.9000	.0006
99	41	46.2829	.0000	27.4758	1.6845	16.6789	1.6845	.3679		
100	42	68.4967	.0000	27.4173	2.4983	11.2220	2.4983	.2476		
101	43	36.8815	.0000	27.3662	1.3477	20.7640	1.3477	.4582		
102								.0073		
103								.0117		
104								.0189		
105								.0000	1.0500	.0003

Figure 6.2-37. - Continued

[illegible]

Figure 6.2-37. - Continued

161	73	1	243.7360	.0000	27.5872	8.8351	3.2427	8.8351	.1202			
162	74	1	31.2470	.0000	27.6085	1.1318	25.3105	1.1318	.9165			
163	75	1	24.8150	.0000	27.3949	.9058	31.2363	.9058	.9929	.3500	.0002	
164	76	1	9.8333	.0000	27.4027	.3588	78.8619	.3588	2.4977	.3500	.0003	
165	77	1	22.1200	.0000	27.3962	.8074	35.0454	.8074	1.1139	.3500	.0003	
166		1						.0000	.0000	1.0500	REVERSED	
167		1						1.3993	.0000	1.0500	.0003	
168		1						6.2313	.0000	1.0500	.0002	
169		1						3.5627	.0000	1.0500	.0002	
170		1						.0000	.0000	1.0500	REVERSED	
171		1						.0000	.0000	1.0500	REVERSED	
172	78	1	96.4662	.0000	27.0575	3.5652	7.7410	3.5652	.1517			
173	79	1	37.8900	.0000	27.0509	1.4007	19.7036	1.4007	.3910			
174	80	1	168.5983	.0000	27.0518	6.2324	4.4276	6.2324	.0871			
175	81	1	.0000	.0000	26.9945	.0000	INF.	.0000	.0000	1.6500	.0005	
176	82	1	.0000	.0000	26.9991	.0000	INF.	.0000	.0000	1.6500	.0005	
177	83	1	.0000	.0000	26.9959	.0000	INF.	.0000	.0000	1.6500	.0005	
178		1						18.7494	.0000			
179		1						12.0115	.0010			
180		1						13.9887	.0011			
181	84	1	467.0858	.0000	26.9332	17.3423	1.5763	17.3423	.0217	1.3000	.0001	
182	85	1	311.8771	.0000	26.9472	11.5736	2.3629	11.5736	.0345	1.3000	.0001	
183	86	1	325.8699	.0000	26.9413	12.0955	2.2602	12.0955	.0327	1.3000	.0001	
184		1						.2141	.0000	1.3000	.0028	
185		1						1.8897	.0000	1.3000	.0021	
186		1						.0000	.0000	1.3000	REVERSED	
187		1						1.4032	.0000	1.3000	.0021	
188	88	1	5.7724	.0000	26.9600	.2141	127.7248	.2141	1.8065			
189	89	1	88.7399	.0000	26.9474	3.2931	8.3005	3.2931	.1174			
190		1						.0000	.0000	1.3000	REVERSED	
191		1						.2210	.0000	1.3000	.0013	
192		1						.0000	.0000	1.3000	REVERSED	
193	87	1	5.9587	.0000	26.9604	.2210	123.7335	.2210	1.7500			
194		1						.0001	.0217	.3800	.0020	
195		1						.0000	.0410	.3800	.0021	
196		1						.0001	.0217	.3900	.0025	
197		1						.0000	.0410	.3900	.0024	
198		1						.0001	.0217	.3900	.0022	
199		1						.0000	.0410	.3900	.0021	
200		1						.0001	.0217	.3900	.0023	
201		1						.0000	.0410	.3900	.0021	
202		1						.0000	.0000	1.0500	.0053	
203		1						.0000	.1460	1.0500	.0051	
204		1						.0000	.0000	1.0500	.0053	
205		1						.0000	.1460	1.0500	.0053	
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
207		0						.0000	.1310	.2000	.0023	
208		0						.0000	.1310	.2000	.0023	
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000			
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
212		0						.0000	.1310	.2000	.0023	
213		0						.0000	.1310	.2000	.0023	
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000			
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340			
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370			
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370			

Figure 6.2-37. - Continued

218	0									.0000	.0070								
219	0									.0000	.0062								
220	98	1			.0000	.0000	.0000	.0000	INF.	.0000	.0000								
221	0	0								.0000	.0000								
222	0	0								.0000	.0000								
223	99	0			.0000	.0000	.0000	.0000	INF.	.0000	.0000								
224	100	0			.0000	.0000	.0000	.0000	INF.	.0000	.0000								
225	0	0								.0000	.0000								
226	0	0								.0000	.0007								
227	0	1								.0000	.0002								
228	0	1								.0155	.0002								
229	0	1								.0000	.0002								
230	101	1			.0000	.0000	29.4131	.0000	INF.	.0010	.0002								
231	0	1								.0000	.0022								
232	0	1								276.1209	.0002								
233	0	1								264.6422	.0002								
234	102	0			.0000	.0000	.0000	.0000	INF.	.0000	.0002								
235	103	0			.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007						
236	104	0			.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008						
237	105	0			.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007						
240	108	0			.0000	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008						

NODE	1	TO 1M	.0000	29.1274	29.3828	29.4131	29.0722	29.3298	29.3567	.0000	.0000	.0000	.0000
NODE	11	TO 20	29.0492	28.9938	28.7831	28.8321	28.9342	28.5589	28.4315	28.7031	28.4587	28.4617	
NODE	21	TO 30	28.4635	27.4098	27.4111	27.4079	27.4038	28.4519	28.4404	28.4314	28.4281	27.1404	
NODE	31	TO 40	27.1519	28.0955	28.0359	27.9837	28.9291	29.2487	29.117	28.1917	28.2821	28.2827	
NODE	41	TO 50	27.8791	.0000	.0000	.0000	28.6572	28.6599	28.6535	27.6048	27.6030	27.6010	
NODE	51	TO 60	26.3099	26.3099	26.3072	26.6446	28.6491	28.6459	27.5982	27.5996	27.5947	28.6369	
NODE	61	TO 70	28.6474	28.6379	27.3471	27.3468	27.3340	28.2645	.0000	28.2594	28.2545	.0000	
NODE	71	TO 80	28.2591	.0000	.0000	29.4131	29.4131	29.4131	.0000	.0000	.0000	.0000	

FUEL CELL FUEL CELL FUEL CELL			
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	276.12	264.64	282.15
VOLTAGE	29.28	29.51	29.55
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE			
LOADED REMAINING CONSUMED H2O PROD			
	(LBS)	(LBS)	(LBS)
O2	3124.00	2428.93	695.07
H2	368.00	279.87	88.13

*****INVERTER STATUS*****									
INVERTER	*****A.C. BUS*****	*****SINGLE PHASE INVERTER*****		CURRENT	EFFICIENCY		CURRENT	D.C. POWER	
LOAD	PWR. FAC.	CURRENT	LOAD	PWR. FAC.	CURRENT	PER CENT	RATIO	(WATT)	
(WATT)		(AMP)	(VA)		(AMP)				

Figure 6.2-37. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4581
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7682	680.9581
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2981
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9601
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6861
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0451
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8471
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0691
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									

ACCUMULATED WATT-HRS OF SOURCES 992637.47 AND LOADS 934980.02 932546.19

Figure 6.2-38.- Circuit solution at 2 days 6 hours 1 minute 4 seconds

DC DISTRIBUTION NETWORK STATUS														

MISSION ELAPSED TIME 54.01778 TIME STEP .03056 NEXT INPUT TIME 54.10111														
TOTAL SOURCE POWER 24231.3528 TOTAL DC/AC LOAD 22583.5388 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6														
BRANCH NO RN SV	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT				

1	1	1						276.1175	.0006					
2	2	1						264.6410	.0005					
3	3	1						282.1482	.0005					
4	1	1						.0000	.0000					
5	2	1						.0000	.0000					
6	3	1						.0000	.0000					
7		0						.0000	.0003					
8		0						.0000	.0002					
9		0						.0000	.0005					
10		0						.0000	.0016					
11		0						.0000	.0002					
12		0						.0000	.0009					
13	4	1						.0000	.0000					
14	5	1						.0000	.0000					
15	6	1						.0000	.0000					
16		1						89.4625	.0016					
17		1						55.9144	.0014					
18		1						15.7600	.0015					
19	7	1						.7385	2.0202					
20	8	1						.9688	1.5480					
21	9	1						1.0588	1.4119					
22	10	1						5.5492	.2669					
23	11	1						3.4114	.4375					
24		1						9.7100	.0317					
25		1						11.6391	.0312					
26		0						.0000	.3900					
27		0						.0000	.3900					
28		0						9.5834	.0058					
29	12	1						21.2224	.0356					
30	15	1						.1265	6.0000					
31		1						15.7899	.0183					
32		1						24.1893	.0206					
33		1						21.6751	.0195					
34		1						12.8784	.0583					
35	16	1						15.3476	.0490					
36	17	1						11.2976	.0665					
37	18	1						2.9116	.0074	.2000	.0009			
38		1						.0419	.0126	.2000	.0016			
39		1						3.1295	.0091	.2000	.0008			
40		1						8.7998	.0074	.2000	.0009			
41		1						7.2478	.0126	.2000	.0016			
42		1												
43		1												

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Figure 6.2-38. - Continued

[illegible]

Figure 6.2-38. - Continued

104							2.2540	.0000	1.0500	.0007
105							.0000	.0000	1.0500	REVERSED
106							.0000	.0000	1.0500	REVERSED
107							.0000	.0000	1.0500	REVERSED
108							.9042	.0000	1.0500	.0011
109	44	680.1561	.0000	27.1867	25.0180	1.1269	25.0180	.0402		
110	45	61.5367	.0000	27.3229	2.2522	12.5576	2.2522	.4259		
111	46	24.6570	.0000	27.2993	.9032	31.3138	.9032	1.0889		
112	47	2435.9427	.0000	27.2281	89.4626	.3195	89.4626	.0151	.3500	.0000
113	48	798.3243	.0000	27.5848	28.9406	.9286	28.9406	.0454	.3500	.0000
114	49	236.6333	.0000	27.6637	8.5539	3.3884	8.5539	.1542	.3500	.0001
115							.0000	.0521	1.0500	.0003
116							.0000	.1374	1.0500	.0003
117	50	.0000	.0000	27.8791	.0000	INF.	.0000	.2677		
118	51	.0000	.0000	27.8791	.0000	INF.	.0000	.0691		
119	52	.0000	.0000	27.8791	.0000	INF.	.0000	.0525		
120							.0000	.0000	.3500	.0024
121							.0000	.0000	.3500	.0024
122	53	.0000	.0000	.0000	.0000	INF.	.0000	.0691	.7000	.0015
123	54	.0000	.0000	.0000	.0000	INF.	.0000	.1063	.7000	.0015
124							.0000	.0321	.7000	.0004
125							.0000	.0256	.7000	.0004
126							.0000	.0000		
127	55	.0000	.0000	.0000	.0000	INF.	.0000	.0000	.2000	.0004
128							.0000	.0000	.2000	.0004
129							.0000	.0000		
130	56	.0000	.0000	.0000	.0000	INF.	.0000	.0053		
131	57	.0000	.0000	.0000	.0000	INF.	.0000	.0052		
132	58	.0000	.0000	.0000	.0000	INF.	.0000	.0041		
133	59	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
134	60	28.6092	.0000	27.6195	1.0358	27.6661	1.0358	1.0017		
135	61	32.4389	.0000	27.6223	1.1744	24.4045	1.1744	.8836		
136	62	15.0869	.0000	27.6160	.5463	52.4491	.5463	1.8991		
137	63	227.0212	.0000	27.4320	8.2757	3.4205	8.2757	.1055	.3500	.0002
138	64	248.0463	.0000	27.4341	9.0415	3.1311	9.0415	.0967	.3500	.0002
139	65	249.4334	.0000	27.4254	9.0950	3.1120	9.0950	.0961	.3500	.0004
140							4.0855	.0000	1.0500	.0006
141							11.8130	.0000	1.0500	.0006
142							4.5807	.0000	1.0500	.0005
143							8.8321	.0000	1.0500	.0006
144							.8497	.0000	1.0500	.0006
145	66	349.6412	.0000	27.0687	12.9167	2.1377	11.5907	.0000	1.0500	.0005
146	67	342.7273	.0000	27.0671	12.6621	2.1800	12.9167	.0415		
147	68	437.6836	.0000	27.0654	16.1712	1.7068	12.6621	.0423		
148							16.1712	.0331		
149							.0004	.0000	2.3500	.0015
150							.0000	.0000	2.3500	REVERSED
151							.0009	.0000	2.3500	.0015
152							.0000	.0000	2.3500	REVERSED
153							.0008	.0000	2.3500	.0008
154	69	.0000	.0000	26.3099	.0000	INF.	.0000	.0000	2.3500	REVERSED
155	70	.0000	.0000	26.3099	.0000	INF.	.0000	.0237		
156	71	.0000	.0000	26.3072	.0000	INF.	.0000	.0120		
157							.0000	.0238		
158							12.9866	.0010		
159							14.1677	.0008		
160	72	333.1964	.0000	27.5826	12.0798	2.3713	8.1812	.0009		
							12.0798	.0879		

Figure 6.2-38. - Continued

[illegible]

Figure 6.2-38. - Continued

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OF POOR QUALITY

Figure 6.2-38. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4586
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	467.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7431	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9606
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6861
2C	368.0000	-.7230	4.4261	368.0601	.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8897	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8556	495.6974	-.9688	4.3499	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WAIT-HRS OF SOURCES 993377.91 AND LOADS 935669.87 933236.05									

[illegible]

Figure 6.2-39. - Continued

44	19	326.8295	.0000	27.9071	11.7112	3.4386	-0.0000	.0091	.2000	REVERSED
45	20	203.9695	.0000	27.9812	7.2895	3.9273	11.7112	.0557		
46	21	87.8000	.0000	28.0544	3.1296	9.1714	7.2895	.0892		
47							3.1296	.2073		
48							107.8279	.0057		
49							122.6770	.0071		
50							184.8609	.0048		
51	22	406.9284	.0000	27.1730	14.9754	1.8770	14.9754	.0623	.3500	.0002
52	23	394.4227	.0000	27.1751	14.5140	1.9369	14.5140	.0643	.3500	.0002
53	24	789.0397	.0000	27.1595	29.0518	.9677	29.0518	.0327	.3500	.0002
54	25	2064.7159	.0000	28.1022	73.4712	.3873	73.4712	.0049		
55	26	1364.6928	.0000	28.2272	48.3464	.5887	48.3464	.0049		
56	27	1954.9503	.0000	28.1262	69.5058	.4095	69.5058	.0049		
57							-0.0000	.0000	1.0500	REVERSED
58							2.9053	.0000	1.0500	.0002
59							9.9007	.0000	1.0500	.0005
60							9.2448	.0000	1.0500	.0002
61							10.7471	.0000	1.0500	.0002
62							10.3300	.0000	1.0500	.0005
63	28	247.8829	.0000	26.8124	9.2450	2.9648	9.2450	.0646		
64	29	366.1400	.0000	26.8185	13.5524	2.0078	13.5524	.0434		
65	30	301.1368	.0000	26.8180	11.2288	2.4409	11.2288	.0525		
66							85.1779	.0000	1.0500	.0001
67							17.1787	.0000	1.0500	.0001
68							60.8115	.0000	1.0500	.0001
69	31	3299.8873	.0000	26.8014	123.1224	.2226	123.1224	.0049		
70							8578	.0079		
71							2.5122	.0085		
72							4.8201	.0067		
73	32	22.8795	.0000	26.7200	.8563	31.7098	.8563	.5040	1.3000	.0005
74	33	36.9962	.0000	26.7084	2.5084	10.8198	2.5084	.1720	1.3000	.0003
75	34	128.6766	.0000	26.6964	4.8200	5.6290	4.8200	.0895	1.3000	.0008
76							-0.0011	.0000	1.3000	.0005
77							-0.0000	.0000	1.3000	REVERSED
78							-0.0000	.0000	1.3000	REVERSED
79							-0.0000	.0000	1.3000	REVERSED
80							-0.0006	.0000	1.3000	.0005
81	36	.0000	.0000	27.1405	.0000	INF.	.0000	.0000		
82	37	.0000	.0000	27.1519	.0000	INF.	.0000	.0000		
83							-0.0000	.0000		
84							-0.0000	.0000		
85							-0.0000	.2526	1.4000	REVERSED
86							-0.0000	.1970	1.0500	REVERSED
87							-0.0000	.1955	1.0500	REVERSED
88							.5361	.1900	1.0500	.0026
89							-0.0000	.2058	1.4000	REVERSED
90							1.4100	.1499	1.0500	.0026
91							1.3461	.1372	1.0500	.0026
92							2.6955	.0894	1.0500	.0026
93							.1313	.2221	1.4000	.0024
94	38	4.7833	.0000	24.1913	.1977	122.3691	.1977	.0212	3.9000	.0002
95	39	4.7580	.0000	24.1317	.1972	122.4143	.1972	.0212	3.9000	.0002
96	40	4.6592	.0000	24.0732	.1935	120.4372	.1935	.0538	3.9000	.0006
97	41	46.2831	.0000	27.4758	1.6845	16.6789	1.6845	.3679		
98	42	68.4970	.0000	27.4174	2.4983	11.2220	2.4983	.2476		
99	43	36.8817	.0000	27.3662	1.3477	20.7640	1.3477	.4582		
100							56.7486	.0073		
101							57.0713	.0117		
102							37.2698	.0189		
103							25.0159	.0000	1.0500	.0003

Figure 6.2-39. - Continued

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Figure 6.2-39. - Continued

161	73	1	243.7362	.0000	27.5873	8.8350	3.2427	8.8350	.1202		
162	74	1	31.2469	.0000	27.6087	1.1318	25.3105	1.1318	.9165		
163	75	1	24.8150	.0000	27.3949	.9058	31.2367	.9058	.9029	.3500	.0002
164	76	1	9.8333	.0000	27.4027	.3588	78.8623	.3588	2.4977	.3500	.0003
165	77	1	22.1200	.0000	27.3963	.8074	35.0454	.8074	1.1139	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								1.3993	.0000	1.0500	.0003
168								6.2313	.0000	1.0500	.0002
169								3.5627	.0000	1.0500	.0002
170								.0000	.0000	1.0500	REVERSED
171								.0000	.0000	1.0500	REVERSED
172	78	1	96.4662	.0000	27.0575	3.5652	7.7410	3.5652	.1517		
173	79	1	37.8900	.0000	27.0509	1.4007	19.7037	1.4007	.3910		
174	80	1	168.5983	.0000	27.0518	6.2324	4.4276	6.2324	.0871		
175	81	1	.0000	.0000	26.9945	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	26.9991	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.9959	.0000	INF.	.0000	.0000	1.6500	.0005
178								18.7492	.0011		
179								12.0117	.0010		
180								13.9883	.0011		
181	84	1	467.0870	.0000	26.9332	17.3423	1.5763	17.3423	.0232	1.3000	.0001
182	85	1	311.8778	.0000	26.9472	11.5736	2.3629	11.5736	.0345	1.3000	.0001
183	86	1	325.8708	.0000	26.9413	12.0955	2.2602	12.0955	.0327	1.3000	.0001
184								.2141	.0000	1.3000	.0028
185								1.8899	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								1.4035	.0000	1.3000	.0021
188	88	1	5.7724	.0000	26.9601	.2141	127.7248	.2141	1.8065		
189	89	1	88.7482	.0000	26.9474	3.2931	8.3005	3.2931	.1174		
190								.0000	.0000	1.3000	REVERSED
191								.2212	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	5.9587	.0000	26.9604	.2210	123.7335	.2210	1.7500		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	1.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-39. - Continued

LINE NO.	DATE	DESCRIPTION	AMOUNT	CHECK NO.	DEBIT	CREDIT	BALANCE	REMARKS
218								
219								
220	98		.0000	.0000	.0000	.0000	INF.	
221								
222			.0000	.0000	.0000	.0000	INF.	
223	99		.0000	.0000	.0000	.0000	INF.	
224	100							
225								
226								
227								
228								
229			.0000	.0000	29.4131	.0000	INF.	
230	101							
231								
232								
233			.0000	.0000	.0000	.0000	INF.	
234	102		.0000	.0000	.0000	.0000	INF.	
235	103		.0000	.0000	.0000	.0000	INF.	
236	104		.0000	.0000	.0000	.0000	INF.	
237	105		.0000	.0000	.0000	.0000	INF.	
240	108		.0000	.0000	.0000	.0000	INF.	

NODE	1	TO	10	29.0000	29.1275	29.3828	29.4132	29.0723	29.3298	29.3568	.0000	.0000	.0000
NODE	11	TO	20	29.0492	28.9938	28.7831	28.8322	28.7342	28.5589	28.6316	28.7031	28.4587	28.4618
NODE	21	TO	30	28.0463	27.4098	27.4111	27.4080	27.4068	28.4519	28.4405	28.4314	28.0000	28.1805
NODE	31	TO	40	27.1519	28.0955	28.0359	27.9837	28.9291	29.2488	29.3337	28.1918	28.2821	28.2828
NODE	41	TO	50	27.8791	.0000	.0000	.0000	28.6572	28.6599	28.6535	27.6048	27.6030	27.6010
NODE	51	TO	60	26.3099	26.3099	26.3072	28.6445	28.6491	28.6459	27.5982	27.5986	28.5947	28.6369
NODE	61	TO	70	28.6475	28.6379	27.3340	27.3868	27.3340	28.2645	.0000	28.2591	28.2545	.0000
NODE	71	TO	80	28.2591	.0000	.0000	29.4131	29.4131	29.4131	.0000	.0000	.0000	.0000

	FUEL CELL	FUEL CELL	FUEL CELL
	1	2	3
SOURCE			
SWITCH CON			
CURRENT	278.12	264.64	282.15
VOLTAGE	29.28	29.51	29.55
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

	CRYOGEN USAGE		H2O PROD	
	LOADED (LBS)	REMAINING (LBS)	CONSUMED (LBS)	(LBS)
O2	3124.00	2426.96	697.04	784.19
H2	368.00	279.62	88.38	

*****INVERTER STATUS*****						CURRENT RATIO	D.C. POWER (WATT)
*****SINGLE PHASE*****							
A.C. BUS	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	INVERTER CURRENT (AMP)	EFFICIENCY PER CENT	
INVERTER	LOAD (WATT)						

Figure 6.2-39. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985

A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646

2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	368.0000	-.7230	4.9261	368.0601	-.9998	3.2005	.7650	.7231	481.0457

A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650

3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.9333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331

A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645

ACCUMULATED WATT-HRS OF SOURCES	995397.17	AND LOADS	937551.58	935117.80
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Figure 6.2-40.- Circuit solution at 2 days 6 hours 11 minutes 4 seconds

***** DC DISTRIBUTION NETWORK STATUS *****													

MISSION ELAPSED TIME 54.18444 TIME STEP .03056 NEXT INPUT TIME 54.26222													
TOTAL SOURCE POWER 24308.0977 TOTAL DC/AC LOAD 22650.9680 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO RV SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT			

1	1	1						277.1651	.0006				
2	2	2						265.5409	.0005				
3	3	3						283.0377	.0005				
4								.0000	.0000				
5								.0000	.0000				
6								.0000	.0000				
7								.0000	.0000				
8								.0000	.0000				
9								.0000	.0000				
10								.0000	.0000				
11								.0000	.0000				
12								.0000	.0000				
13	4	1						.0000	.0000				
14	5	1						.0000	.0000				
15	6	1						.0000	.0000				
16								.0000	.0000				
17								.0000	.0000				
18								.0000	.0000				
19	7	1						.0000	.0000				
20	8	1						.0000	.0000				
21	9	1						.0000	.0000				
22	10	1						.0000	.0000				
23	11	1						.0000	.0000				
24								.0000	.0000				
25								.0000	.0000				
26								.0000	.0000				
27								.0000	.0000				
28								.0000	.0000				
29	12	1						.0000	.0000				
30	15	1						.0000	.0000				
31								.0000	.0000				
32								.0000	.0000				
33								.0000	.0000				
34								.0000	.0000				
35								.0000	.0000				
36	16	1						.0000	.0000				
37	17	1						.0000	.0000				
38	18	1						.0000	.0000				
39								.0000	.0000				
40								.0000	.0000				
41								.0000	.0000				
42								.0000	.0000				
43								.0000	.0000				

Figure 6.2-40. - Continued

44	19	326.8123	.0000	27.8977	11.7146	2.4371	11.7146	.0091	.2000	REVERSED
45	20	203.9552	.0000	27.9725	7.2912	3.9257	7.2912	.0892		
47	21	87.8000	.0000	28.0459	3.1306	9.1661	3.1306	.2073		
48							107.6603	.0057		
49							122.6989	.0071		
50							185.1264	.0048		
51	22	406.8050	.0000	27.1639	14.9758	1.8763	14.9758	.0623	.3500	.0002
52	23	394.3074	.0000	27.1661	14.5146	1.9362	14.5146	.0643	.3500	.0002
53	24	788.9515	.0000	27.1503	29.0584	.9672	29.0584	.0327	.3500	.0002
54	25	2064.7159	.0000	28.0930	73.4950	.3871	73.4950	.0049		
55	26	1364.6928	.0000	28.2181	48.3619	.5883	48.3619	.0049		
56	27	1954.9503	.0000	28.1171	69.5283	.4093	69.5283	.0049		
57							.0000	.0000	1.0500	REVERSED
58							2.8782	.0000	1.0500	.0002
59							9.9326	.0000	1.0500	.0005
60							9.2493	.0000	1.0500	.0002
61							10.7817	.0000	1.0500	.0002
62							1.2967	.0000	1.0500	.0005
63	28	247.8566	.0000	26.8032	9.2472	2.9632	9.2472	.0646		
64	29	366.0787	.0000	26.8094	13.6547	2.0068	13.6547	.0434		
65	30	301.0756	.0000	26.8089	11.2303	2.4397	11.2303	.0525		
66							45.1691	.0000	1.0500	.0001
67							17.0118	.0000	1.0500	.0001
68							60.9762	.0000	1.0500	.0001
69	31	3299.8642	.0000	26.7922	123.1637	.2225	123.1637	.0049		
70							.8577	.0079		
71							2.5104	.0085		
72							4.8185	.0067		
73	32	22.8647	.0000	26.7110	.8560	31.7091	.8560	.5040	1.3000	.0005
74	33	66.9532	.0000	26.6995	2.5076	10.8195	2.5076	.1720	1.3000	.0003
75	34	128.5939	.0000	26.6876	4.8185	5.6289	4.8185	.0895	1.3000	.0008
76							.0001	.0000	1.3000	.0005
77							.0000	.0000	1.3000	REVERSED
78							.0000	.0000	1.3000	REVERSED
79							.0006	.0000	1.3000	.0005
80							.0000	.0000		
81	36	.0000	.0000	27.1315	.0000	INF.	.0000	.0000		
82	37	.0000	.0000	27.1429	.0000	INF.	.0000	.0000		
83							.0000	.0000		
84							.0000	.0000		
85							.0000	.0000		
86							.2526	.0000	1.4000	REVERSED
87							.1970	.0000	1.0500	REVERSED
88							.1955	.0000	1.0500	REVERSED
89							.5325	.0000	1.0500	.0026
90							.2038	.0000	1.4000	REVERSED
91							1.4063	.0000	1.0500	.0026
92							1.3492	.0000	1.0500	.0026
93							2.6948	.0094	1.0500	.0026
94	38	4.7798	.0000	24.1831	.1976	122.3751	.1976	.2221	1.4000	.0026
95	39	4.7547	.0000	24.1240	.1971	122.4203	.1971	.0212	1.9000	.0002
96	40	4.6557	.0000	24.0649	.1935	124.4440	.1935	.0538	3.9000	.0002
97	41	46.2577	.0000	27.4678	1.6841	16.6784	1.6841	.3679		.0006
98	42	68.4615	.0000	27.4099	2.4977	11.2217	2.4977	.2476		
99	43	36.8610	.0000	27.3581	1.3473	20.7633	1.3473	.4582		
100							57.9801	.0073		
101							57.9547	.0117		
102							37.8630	.0169		
103							25.0227	.0000	1.0500	.0003

395

Figure 6.2-40. - Continued

[illegible]

Figure 6.2-40. - Continued

161	73	1	243.6938	.0000	27.5674	8.8398	3.2387	8.8398	.1202		
162	74	1	31.2082	.0000	27.5903	1.1311	25.3086	1.1311	.9165		
163	75	1	24.8190	.0000	27.3753	.9065	31.1932	.9065	.9929	.3500	.0002
164	76	1	9.8323	.0000	27.3829	.3591	78.7604	.3591	2.4977	.3500	.0003
165	77	1	22.1200	.0000	27.3767	.8080	34.9973	.8080	.0000	.3500	.0003
166								.0000	.0000	1.0500	REVERSED
167								1.4000	.0000	1.0500	.0003
168								6.2313	.0000	1.0500	.0002
169								3.5656	.0000	1.0500	.0002
170								.0000	.0000	1.0500	REVERSED
171								.0000	.0000	1.0500	REVERSED
172	78	1	96.4377	.0000	27.0380	3.5667	7.7323	3.5667	.1517		
173	79	1	37.8888	.0000	27.0313	1.4017	19.6764	1.4017	.3910		
174	80	1	168.5631	.0000	27.0326	6.2355	4.4224	6.2355	.0871		
175	81	1	.0000	.0000	26.9755	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	26.9799	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.9770	.0000	INF.	.0000	.0000	1.6500	.0005
178								19.8550	.0011		
179								13.3624	.0010		
180								14.2269	.0011		
181	84	1	503.1698	.0000	26.9140	18.6953	1.4612	18.6953	.0214	1.3000	.0001
182	85	1	348.0482	.0000	26.9278	12.9251	2.1142	12.9251	.0308	1.3000	.0001
183	86	1	325.5620	.0000	26.9222	12.0926	2.2591	12.0926	.0327	1.3000	.0001
184								.2141	.0000	1.3000	.0029
185								2.1339	.0000	1.3000	.0021
186								.0000	.0000	1.3000	REVERSED
187								1.1571	.0000	1.3000	.0021
188	88	1	5.7640	.0000	26.9397	.2140	127.7173	.2140	1.8865		
189	89	1	88.6174	.0000	26.9280	3.2909	8.3000	3.2909	.1174		
190								.0000	.0000	1.3000	REVERSED
191								.2208	.0000	1.3000	.0013
192								.0000	.0000	1.3000	REVERSED
193	87	1	5.9501	.0000	26.9400	.2209	123.7263	.2209	1.7500		
194								.0001	.0217	.3800	.0020
195								.0000	.0410	.3800	.0021
196								.0001	.0217	.3900	.0025
197								.0000	.0410	.3900	.0024
198								.0001	.0217	.3900	.0022
199								.0000	.0410	.3900	.0021
200								.0001	.0217	.3900	.0023
201								.0000	.0410	.3900	.0021
202								.0000	.0000	2.0500	.0053
203								.0000	.1460	1.0500	.0053
204								.0000	.0000	1.0500	.0053
205								.0000	.1460	1.0500	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.2000	.0023
208								.0000	.1310	.2000	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212								.0000	.1310	.2000	.0023
213								.0000	.1310	.2000	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-40. - Continued

[illegible]

Figure 6.2-40. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	477.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985

A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646

2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6663
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457

A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650

3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	562.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331

A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645

ACCUMULATED WATT-HRS OF SOURCES 997418.77 AND LOADS 939435.09 937001.34

Figure 6.2-41.- Circuit solution at 2 days 6 hours 16 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 54.26778 TIME STEP .00547 NEXT INPUT TIME 54.31222													
TOTAL SOURCE POWER 24308.0977 TOTAL DC/AC LOAD 22650.9680 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO	RN	SV	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE	SHUNT

1	1	1	29.27	277.17						277.1651	.0006		
2	2	1	29.50	265.54						265.5809	.0005		
3	3	1	29.55	263.04						263.0377	.0005		
4	1	1			.0000	.0000	29.1177	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	29.3741	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	29.4056	.0000	INF.	.0000	.0000		
7	0	0								.0000	.0002		
8	0	0								.0000	.0002		
9	0	0								.0000	.0005		
10	0	0								.0000	.0016		
11	0	0								.0000	.0002		
12	0	0								.0000	.0009		
13	4	0			.0000	.0000	29.0622	.0000	INF.	.0000	.0000		
14	5	1			11.4000	.0000	27.8108	.4099	71.5301	.4099	3.6842		
15	6	1			.0000	.0000	29.3490	.0000	INF.	.0000	.0000		
16	0	0								89.4792	.0016		
17	0	0								55.9042	.0014		
18	0	0								15.7604	.0015		
19	7	1			20.3572	.0000	27.5706	.7384	39.3605	.7384	2.0202		
20	8	1			26.9525	.0000	27.8214	.9688	30.2664	.9688	1.5480		
21	9	1			29.4859	.0000	27.8544	1.0586	27.7253	1.0586	1.4119		
22	10	1			153.0103	.0000	27.5817	5.5475	5.2388	5.5475	.2669		
23	11	1			94.9109	.0000	27.8289	3.4105	8.5973	3.4105	.4375		
24	0	0								9.7061	.0317		
25	0	0								11.6369	.0312		
26	0	0								.0000	.3900		
27	0	0								.0000	.3900		
28	0	0								.0000	.0058		
29	12	1			599.0404	.0000	28.2318	21.2185	1.3661	21.2185	.0356		
30	15	1			3.5758	.0000	28.2830	.1264	229.7058	.1264	6.0000		
31	0	0								15.7591	.0183		
32	0	0								24.1929	.0206		
33	0	0								21.7011	.0195		
34	0	0								12.8756	.0583		
35	16	1			360.8208	.0000	28.0233	12.8756	2.2347	12.8756	.0490		
36	17	1			430.7461	.0000	28.0718	13.3441	1.8785	13.3441	.0665		
37	18	1			318.2866	.0000	28.1748	11.2968	2.5605	11.2968	.0074	.2000	.0009
38	0	0								2.8835	.0126	.2000	.0016
39	0	0								.0177	.0091	.2000	.0008
40	0	0								3.1306	.0074	.2000	.0009
41	0	0								8.8311	.0126	.2000	.0016
42	0	0								7.2736			
43	0	0											

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OF POOR QUALITY

Figure 6.2-41. - Continued

44	19	326.8123	.0000	27.8977	11.7146	2.4371	-0.0000	.0091	.2000	REVERSED
45	20	203.9552	.0000	27.9725	7.2912	3.9257	7.2912	.0554		
46	21	87.8000	.0000	28.0459	3.1306	9.1661	3.1306	.0892		
47							107.6603	.2013		
48							122.6989	.0057		
49							185.1264	.0071		
50	22	406.8050	.0000	27.1639	14.9758	1.8763	14.9758	.0048	.3500	.0002
51	23	394.3074	.0000	27.1661	14.5146	1.9362	14.5146	.0623	.3500	.0002
52	24	788.9515	.0000	27.1503	29.0584	.9672	29.0584	.0643	.3500	.0002
53	25	2064.7159	.0000	28.0930	73.4950	.3871	73.4950	.0327		
54	26	1364.6928	.0000	28.2181	48.3619	.5863	48.3619	.0049		
55	27	1954.9503	.0000	28.1171	69.5283	.4093	69.5283	.0049		
56							2.8782	.0000	1.0500	REVERSED
57							9.9326	.0000	1.0500	.0002
58							9.2493	.0000	1.0500	.0005
59							10.7817	.0000	1.0500	.0002
60							1.2967	.0000	1.0500	.0002
61	28	247.8566	.0000	26.8032	9.2472	2.9632	9.2472	.0046		
62	29	366.0787	.0000	26.8094	13.6547	2.0068	13.6547	.0646		
63	30	301.0756	.0000	26.8089	11.2303	2.4397	11.2303	.0434		
64							45.1697	.0525		
65							17.0118	.0000	1.0500	.0001
66	31	3299.8642	.0000	26.7922	123.1637	.2225	60.9762	.0000	1.0500	.0001
67							123.1637	.0049		
68							.8577	.0078		
69							2.5104	.0065		
70							4.8185	.0067		
71	32	22.8647	.0000	26.7110	.8560	31.7091	.8560	.5040	1.3000	.0005
72	33	66.9532	.0000	26.6995	2.5076	10.8195	2.5076	.1720	1.3000	.0003
73	34	128.5939	.0000	26.6876	4.8185	5.6289	4.8185	.0895	1.3000	.0008
74							.0001	.0000	1.3000	.0005
75							.0000	.0000	1.3000	REVERSED
76							.0000	.0000	1.3000	REVERSED
77							.0006	.0000	1.3000	.0005
78	36	.0000	.0000	27.1315	.0000	INF.	.0000	.0000		
79	37	.0000	.0000	27.1429	.0000	INF.	.0000	.0000		
80							.0000	.0000		
81							.0000	.2526	1.4000	REVERSED
82							.0000	.1970	1.0500	REVERSED
83							.0000	.1955	1.0500	REVERSED
84							.0000	.1900	1.0500	REVERSED
85							.0000	.1900	1.0500	.0026
86							.0000	.2056	1.4000	REVERSED
87							1.4063	.1499	1.0500	.0026
88							1.3492	.1372	1.0500	.0026
89							2.6946	.0894	1.0500	.0026
90							.1346	.2221	1.0500	.0026
91	38	4.7798	.0000	24.1831	.1976	122.3751	.1976	.0212	1.9000	.0003
92	39	4.1547	.0000	24.1240	.1971	122.4203	.1971	.0212	1.9000	.0003
93	40	4.6557	.0000	24.0649	.1935	122.4440	.1935	.0218	1.9000	.0006
94	41	4.2577	.0000	27.4878	1.6841	16.6764	1.6841	.1679		
95	42	68.4615	.0000	27.4099	2.4977	11.2217	2.4977	.2476		
96	43	36.8610	.0000	27.3581	1.3473	20.7633	1.3473	.4582		
97							57.9801	.0073		
98							37.9547	.0117		
99							37.8630	.0189		
100							25.0227	.0000	1.0500	.0003

Figure 6.2-41. - Continued

124						2.2520	.0000	1.0500	.0007
125						.0000	.0000	1.0500	REVERSED
126						.0000	.0000	1.0500	REVERSED
127						.0000	.0000	1.0500	REVERSED
128						.0037	.0000	1.0500	.0011
129		680.1260	.0000	27.1775	25.0252	1.1262	25.0252	.0402	
130	44	51.5047	.0000	27.2154	2.2516	12.5572	2.2516	.4259	
131	45	24.6510	.0000	27.2915	.9032	31.2039	.9032	1.0889	
132	46	2435.4726	.0000	27.2178	89.4792	.3193	89.4792	.0151	.3500
133	48	797.8625	.0000	27.5764	28.2729	.6785	28.2729	.0454	.3500
134	50	236.5255	.0000	27.6562	8.5523	3.3281	8.5523	.1542	.3500
135								.0521	1.0500
136								.1374	1.0500
137	53	.0036	.0000	27.2591	.0000	INF.	.0000	.0677	
138	51	.0000	.0000	27.2591	.0000	INF.	.0000	.0691	
139	52	.0000	.0000	27.2591	.0000	INF.	.0000	.0525	
140								.0000	.3500
141								.0000	.3500
142	53	.0000	.0000	.0000	.0000	INF.	.0000	.0591	.7000
143	54	.0000	.0000	.0000	.0000	INF.	.0000	.1063	.7000
144								.0000	.7000
145								.0000	.7000
146	55	.0000	.0000	.0000	.0000	INF.	.0000	.0000	.0000
147	56	.0000	.0000	.0000	.0000	INF.	.0000	.0000	.0000
148								.0000	.2000
149								.0000	.2000
150	57	.0000	.0000	.0000	.0000	INF.	.0000	.0053	
151	58	.0000	.0000	.0000	.0000	INF.	.0000	.0052	
152	59	.0000	.0000	.0000	.0000	INF.	.0000	.0041	
153	60	28.5734	.0000	27.6012	1.0352	27.6639	1.0352	1.0017	
154	61	16.3579	.0000	27.6036	1.1737	24.4025	1.1737	.8836	
155	62	16.0622	.0000	27.5777	.5460	52.4451	.5460	1.8991	
156	63	226.8071	.0000	27.4132	8.2736	3.4191	8.2736	.1055	.3500
157	64	247.8166	.0000	27.4151	9.0394	3.1297	9.0394	.0767	.3500
158	65	249.2371	.0000	27.4065	9.0929	3.1106	9.0929	.0961	.3500
159								.4.2853	.0000
160								11.5434	.0000
161								4.6457	.0000
162								8.6371	.0000
163								1.1213	.0000
164								11.5057	.0000
165	66	349.4772	.0000	27.0455	12.2198	2.1351	12.2198	.0415	
166	67	342.5546	.0000	27.0479	12.2250	2.1720	12.2250	.0423	
167	68	437.4724	.0000	27.0463	16.1748	1.7053	16.1748	.0231	
168								.0000	.0000
169								.0000	2.3500
170								.0000	2.3500
171								.0000	2.3500
172								.0000	2.3500
173								.0000	2.3500
174								.0000	2.3500
175	69	.0000	.0000	26.2507	.0000	INF.	.0000	.0237	
176	70	.0000	.0000	26.2507	.0000	INF.	.0000	.0120	
177	71	.0000	.0000	26.2522	.0000	INF.	.0000	.0238	
178								12.2932	.0010
179								14.1717	.0008
180								8.1802	.0009
181	72	333.1463	.0000	27.5430	12.0867	2.3624	12.0863	.0879	

Figure 6.2-41. - Continued

161	73	243.6938	.0000	27.5674	8.8398	3.2387	8.8398	.1202		
162	74	31.2082	.0000	27.5903	1.1311	25.3086	1.1311	.9165		
163	75	24.8150	.0000	27.3753	.9065	31.1932	.9065	.9929	.3500	.0002
164	76	9.8323	.0000	27.3829	.3591	78.7664	.3591	2.4977	.3500	.0003
165	77	22.1200	.0000	27.3767	.8080	34.9973	.8080	1.1139	.3500	.0003
166								.0000	1.0500	REVERSED
167								.0000	1.0500	.0003
168								6.2313	.0000	.0002
169								3.5656	.0000	.0002
170								.0000	1.0500	REVERSED
171								.0000	1.0500	REVERSED
172	78	96.4377	.0000	27.0380	3.5667	7.7323	3.5667	.1517		
173	79	37.8868	.0000	27.0313	1.4017	19.6764	1.4017	.3910		
174	80	168.5631	.0000	27.0326	6.2355	4.4224	6.2355	.0871		
175	81	.0000	.0000	26.9755	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	26.9799	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	26.9770	.0000	INF.	.0000	.0000	1.6500	.0005
178								.0011		
179								.0010		
180								.0011		
181	84	503.1698	.0000	26.9140	18.6953	1.4612	18.6953	.0214	1.3000	.0001
182	85	348.0482	.0000	26.9278	12.9251	2.1142	12.9251	.0308	1.3000	.0001
183	86	325.5620	.0000	26.9222	12.0926	2.2591	12.0926	.0327	1.3000	.0001
184								.0000	1.3000	.0028
185								.0000	1.3000	.0021
186								.0000	1.3000	REVERSED
187								.0000	1.3000	.0021
188	88	5.7640	.0000	26.9397	.2140	127.7173	.2140	1.8065		
189	89	88.6174	.0000	26.9280	3.2909	8.3000	3.2909	.1174		
190								.0000	1.3000	REVERSED
191								.0000	1.3000	.0013
192								.0000	1.3000	REVERSED
193	87	5.9501	.0000	26.9400	.2209	123.7263	.2209	1.7500		
194								.0001	.3800	.0020
195								.0000	.3800	.0021
196								.0001	.3900	.0025
197								.0000	.3900	.0024
198								.0001	.3900	.0022
199								.0000	.3900	.0021
200								.0001	.3900	.0023
201								.0000	.3900	.0021
202								.0000	1.0500	.0053
203								.0000	1.0500	.0053
204								.0000	1.0500	.0053
205								.0000	1.0500	.0053
206	90	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207								.0000	.1310	.0023
208								.0000	.1310	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340	.2000	.0023
212								.0000	.1310	.0023
213								.0000	.1310	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1370		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.1370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.1370		

Figure 6.2-41. - Continued

98																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NODE	1	10	10	29.00000	29.11777	29.37411	29.40556	29.06222	29.32100	29.34900	28.00000	28.00000	28.00000
NODE	11	20	20	29.04166	29.28662	29.77377	29.82329	29.92666	29.59977	29.62333	28.69499	28.44999	28.45556
NODE	21	30	30	29.08333	29.35000	29.84000	29.87333	29.96000	29.66667	29.64000	28.77778	28.52778	28.53333
NODE	31	40	40	29.12500	29.41667	29.90000	29.93333	29.99333	29.73333	29.70000	28.88889	28.63889	28.64444
NODE	41	50	50	29.16667	29.48333	29.96667	29.98333	29.99667	29.76667	29.73333	28.96667	28.71667	28.72222
NODE	51	60	60	29.20907	29.55097	29.98332	29.99555	29.99833	29.79070	29.75944	29.04944	28.79444	28.80000
NODE	61	70	70	29.25258	29.61888	29.99255	29.99762	29.99933	29.80556	29.77556	29.10556	28.85556	28.86111
NODE	71	80	80	29.29399	29.68800	29.99900	29.99956	29.99956	29.80556	29.77556	29.10556	28.85556	28.86111

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	1	1
SWITCH CON			
CURRENT	277.17	265.54	283.04
VOLTAGE	29.27	29.50	29.55
PARASITIC	.0000	.0000	.0000
TO MP	180.0000	180.0000	180.0000
OF			
AM. REMAIN			

	CRYOGEN USAGE			
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	2424.06	699.94	787.45
H2	368.00	279.26	88.74	

[illegible]

Figure 6.2-4]. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	523.9333	-.7115	6.3555	547.8024	-.9510	4.7635	.7650	.7682	680.9586
1C	487.5333	-.6819	6.2172	519.0028	-.9394	4.5131	.7650	.7259	637.2985
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	-.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	-.9935	2.8769	.7650	.7350	429.6663
2C	368.0000	-.7230	4.4261	368.0601	-.9998	3.2005	.7650	.7231	481.0457
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	575.1333	-.7331	6.8223	605.2773	-.9502	5.2633	.7638	.7715	753.0331
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7645									
ACCUMULATED WATT-HRS OF SOURCES 999444.42 AND LOADS 941322.01 938888.29									

Figure 6.2-42.- Circuit solution at 2 days 6 hours 21 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS

MISSION ELAPSED TIME			54.35111 TIME STEP			.00547 NEXT INPUT TIME			54.39417			
TOTAL SOURCE POWER 24299.5947			TOTAL DC/AC LOAD 22645.0483			REFERENCE MODE			1. ACCURACY .0010 SOLUTIONS ATTEMPTED 6			
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC		
										VOLTAGE	RESISTANCE	SHUNT
1	29.27	277.12						277.1245	.0006			
2	29.50	265.52						265.5215	.0005			
3	29.55	282.79						282.7852	.0005			
4			.0000	.0000	29.1181	.0000	INF.	.0000	.0000			
5			.0000	.0000	29.3743	.0000	INF.	.0000	.0000			
6			.0000	.0000	29.4077	.0000	INF.	.0000	.0000			
7								.0000	.0003			
8								.0000	.0002			
9								.0000	.0005			
10								.0000	.0016			
11								.0000	.0002			
12								.0000	.0009			
13			.0000	.0000	29.0626	.0000	INF.	.0000	.0000			
14			11.4000	.0000	27.8110	.4099	71.5310	.4099	3.6842			
15			.0000	.0000	29.3512	.0000	INF.	.0000	.0000			
16								89.4786	.0016			
17								55.8934	.0014			
18								15.7652	.0015			
19			20.3576	.0000	27.5710	.7384	39.3608	.7384	2.0202			
20			26.9527	.0000	27.8216	.9688	30.2666	.9688	1.5480			
21			29.4897	.0000	27.8565	1.0586	27.7259	1.0586	1.4119			
22			153.0140	.0000	27.5821	5.5475	5.2388	5.5475	.2669			
23			94.9120	.0000	27.8291	3.4105	8.5973	3.4105	.4375			
24								9.7087	.0317			
25								11.6375	.0312			
26								.0000	.3900			
27								.0000	.3900			
28								9.5820	.0058			
29			599.1169	.0000	28.2340	21.2196	1.3661	21.2196	.0356			
30			3.5764	.0000	28.2F51	.1264	229.7038	.1264	6.0000			
31								16.3797	.0183			
32								24.7529	.0206			
33								21.7185	.0195			
34								13.4728	.0557			
35			377.4062	.0000	28.0125	13.4728	2.1349	13.4728	.0471			
36			447.3225	.0000	28.0607	15.9412	1.8074	15.9412	.0665			
37			318.3123	.0000	28.1766	11.2970	2.5607	11.2970	.0074			
38								2.9069	.0074	.2000	.0009	
39								.0000	.0126	.2000	REVERSED	
40								3.1303	.0091	.2000	.0008	
41								8.8118	.0074	.2000	.0009	
42								7.2909	.0126	.2000	.0016	
43												

Figure 6.2-42. - Continued

44	19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Figure 6.2-42. - Continued

104						2.2520	.0000	1.0500	.0007
105						.0000	.0000	1.0500	REVERSED
106						.0000	.0000	1.0500	REVERSED
107						.0000	.0000	1.0500	REVERSED
108						.9026	.0000	1.0500	.0011
109						25.0250	.0402		
110	44	680.1267	.0000	27.1777	25.0250	1.1262	25.0250		
111	45	61.5138	.0000	27.3175	2.2818	12.5573	2.2518		
112	46	24.6527	.0000	27.2937	.9032	31.3067	1.0889		
113	47	2435.4955	.0000	27.2182	89.4787	.3193	.0151	.3500	.0000
114	48	797.8725	.0000	27.2762	28.9330	.9985	.0454	.3500	.0000
115	49	236.5561	.0000	27.6583	8.5528	5.3862	28.9330	.3500	.0001
116							8.5528	1.542	.0003
117							.0000	.0521	1.0500
118	50	.0000	.0000	27.8695	.0000	INF.	.1374	1.0500	.0003
119	51	.0000	.0000	27.8695	.0000	INF.	.0677		
120	52	.0000	.0000	27.8695	.0000	INF.	.0691		
121							.0525		
122	53	.0000	.0000	.0000	.0000	INF.	.0000	.3500	.0024
123	54	.0000	.0000	.0000	.0000	INF.	.0000	.3500	.0024
124							.0000	.7000	.0015
125							.0000	.7000	.0015
126	55	.0000	.0000	.0000	.0000	INF.	.0321	.7000	.0004
127	56	.0000	.0000	.0000	.0000	INF.	.0256	.7000	.0004
128							.0000		
129							.0000	.2000	.0004
130	57	.0000	.0000	.0000	.0000	INF.	.0000	.2000	.0004
131	58	.0000	.0000	.0000	.0000	INF.	.0053		
132	59	.0000	.0000	.0000	.0000	INF.	.0052		
133	60	.0000	.0000	.0000	.0000	INF.	.0041		
134	61	28.5747	.0000	27.6019	1.0352	27.6640	1.0017		
135	62	32.3993	.0000	27.6043	1.1737	24.4027	1.1737		
136	63	15.0689	.0000	27.5989	.5460	52.4453	1.8991	.3500	.0002
137	64	226.8149	.0000	27.4139	8.2737	1.4192	1.0553	.3500	.0002
138	65	247.8247	.0000	27.4157	9.0394	3.1298	.0967	.3500	.0004
139		249.2158	.0000	27.4074	9.0930	3.1107	.0961	1.0500	.0006
140							4.2923	1.0500	.0006
141							11.5054	1.0500	.0005
142							4.7013	1.0500	.0006
143							8.6278	1.0500	.0006
144							1.1597	1.0500	.0005
145	66	349.4838	.0000	27.0502	12.9197	2.1352	.0415		
146	67	342.5705	.0000	27.0486	12.6649	2.1780	.0423		
147	68	437.4802	.0000	27.0471	16.1746	1.7053	.0331		
148							.0003	2.3500	REVERSED
149							.0000	2.3500	REVERSED
150							.0007	2.3500	REVERSED
151							.0001	2.3500	.0008
152							.0000	2.3500	REVERSED
153							.0000		
154	69	.0000	.0000	26.2914	.0000	INF.	.0237		
155	70	.0000	.0000	26.2914	.0000	INF.	.0120		
156	71	.0000	.0000	26.2889	.0000	INF.	.0238		
157							.0010		
158							12.9939	.0008	
159							14.1745	.0009	
160	72	333.1424	.0000	27.5637	12.0861	2.3685	8.1802	.0879	

Figure 6.2-42. - Continued

161	73	1	243.6953	.0000	27.5681	8.8397	1.2389	8.8397	.1202		
162	74	1	31.2097	.0000	27.5911	1.1311	25.3086	1.1311	.9165		
163	75	1	24.8150	.0000	27.3760	.9064	31.1948	.9064	.9929	.3500	.0002
164	76	1	9.8323	.0000	27.3836	.3591	78.7639	.3591	2.4977	.3500	.0003
165	77	1	22.1260	.0000	27.3775	.8080	34.9991	.8080	1.1139	.3500	.0003
166									.0000	1.0500	REVERSED
167									1.4008	.0000	
168									6.2338	.0000	.0003
169									3.5647	.0000	.0002
170									.0000	.0000	
171									.0000	1.0500	REVERSED
172	78	1	96.4387	.0000	27.0387	3.5667	7.7326	3.5667	.0000	1.0500	REVERSED
173	79	1	37.8888	.0000	27.0320	1.4016	19.6773	1.4016	.1517		
174	80	1	168.5644	.0000	27.0323	6.2354	4.4226	6.2354	.3910		
175	81	1	.0000	.0000	26.9762	.0000	INF.	.0000	.0871		
176	82	1	.0000	.0000	26.9806	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.9777	.0000	INF.	.0000	.0000	1.6500	.0005
178									.0000	1.6500	.0005
179									19.8490	.0011	
180									13.3631	.0010	
181	84	1	503.1823	.0000	26.9147	18.6953	1.4612	18.6953	.0011		
182	85	1	348.0583	.0000	26.9285	12.9252	2.1143	12.9252	.0214	1.3000	.0001
183	86	1	323.5736	.0000	26.9230	12.0927	2.2592	12.0927	.0308	1.3000	.0001
184									.0327	1.3000	.0001
185									.2139	1.3000	.0028
186									2.1399	1.3000	.0021
187									.0000	1.3000	REVERSED
188									1.1510	1.3000	.0021
189	88	1	5.7643	.0000	26.9404	.2140	127.7176	.2140	1.8065		
190	89	1	88.6218	.0000	26.9287	3.2910	8.3000	3.2910	.1174		
191									.0000	1.3000	REVERSED
192									.2208	1.3000	.0013
193									.0000	1.3000	REVERSED
194	87	1	5.9504	.0000	26.9407	.2209	123.7265	.2209	1.7500		
195									.0001	.3800	.0020
196									.0000	.0410	.0021
197									.0001	.0217	.0025
198									.0000	.0410	.0024
199									.0001	.0217	.0022
200									.0000	.0410	.0021
201									.0001	.0217	.0023
202									.0000	.0410	.0021
203									.0000	.0000	.0053
204									.0000	.1460	.0053
205									.0000	.0000	.0053
206	90	0	.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207									.0000	.1340	
208									.0000	.1310	.0023
209	91	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	93	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212									.0000	.1340	
213									.0000	.1310	.0023
214	94	0	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	0	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	0	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-42. - Continued

[illegible]

NODE	1	TO	10		29.0000	29.1181	29.3743	29.4077	29.0626	29.3212	29.3512		28.0000		28.0000	28.0000
NODE	11	TO	20	29.0437	28.9884	28.7627	28.8119	28.0626	28.3212	28.3512	28.0000		28.6967	28.0000	28.4556	28.4556
NODE	21	TO	30	28.4588	28.4047	28.0606	28.8119	28.4077	28.3212	28.3512	28.0000		28.4263	28.0000	28.7135	28.7135
NODE	31	TO	40	28.1406	28.0887	28.0308	27.9764	28.0626	28.3212	28.3512	28.0000		28.1831	28.0000	28.7772	28.7772
NODE	41	TO	50	27.8656	27.8137	27.7593	27.7049	27.9764	28.0626	28.3212	28.3512		27.9656	28.0000	28.5828	28.5828
NODE	51	TO	60	27.5914	27.5394	27.4859	27.4325	27.7049	27.9764	28.0626	28.3512		27.7481	28.0000	28.6687	28.6687
NODE	61	TO	70	27.3172	27.2652	27.2117	27.1583	27.4325	27.7049	27.9764	28.0626		27.5306	28.0000	28.7547	28.7547
NODE	71	TO	80	27.0430	26.9910	26.9375	26.8841	27.1583	27.4325	27.7049	27.9764		27.3131	28.0000	28.8408	28.8408
NODE				28.2406	28.0000	28.0000	28.0000	29.4077	29.4077	29.4077	29.4077		28.0000	28.0000	28.0000	28.0000

	FUEL CELL	FUEL CELL	FUEL CELL
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	277.12	265.52	282.79
VOLTAGE	29.27	29.50	29.55
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SDC			
ABO REMAIN			

CRYOGEN USAGE				
	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
02	3124.00	2422.62	701.38	769.08
H2	365.00	279.08	86.92	

[illegible]

Figure 6.2-42. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	-.7679	746.4588
1B	520.9333	-.7115	6.3685	547.8024	-.9510	4.7635	.7650	-.7682	680.9586
1C	477.5333	-.6787	6.1185	507.8896	-.9410	4.4130	.7650	-.7212	624.2266
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	-.9957	3.0330	.7650	-.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	-.9935	2.8769	.7650	-.7350	429.6863
2C	358.0000	-.7196	4.3261	358.0003	-1.0000	3.1130	.7650	-.7196	467.9739
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	-.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	-.7412	632.0597
3C	565.1333	-.7311	6.7219	593.8504	-.9516	5.1639	.7642	-.7682	739.5376
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7647									
ACCUMULATED WATT-HRS OF SOURCES 1001470.04 AND LOADS 943208.47 940774.79									

DC DISTRIBUTION NETWORK STATUS												

MISSION ELAPSED TIME			54.43444 TIME STEP		.00542, NEXT INPUT TIME			54.44111				
TOTAL SOURCE POWER 22610.0076			TOTAL DC/AC LOAD 21115.1946		REFERENCE NODE			1 ACCURACY		.0010 SOLUTIONS ATTEMPTED 6		
BRANCH NO	RN	SM	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE SHUNT
1	1	1	29.53	247.49						247.4922	.0006	
2	2	2	29.64	249.88						249.8782	.0005	
3	3	3	29.68	265.94						265.9446	.0005	
4	4	4			.0000	.0000	29.3972	.0000	INF.	.0000	.0000	
5	5	5			.0000	.0000	29.5254	.0000	INF.	.0000	.0000	
6	6	6			.0000	.0000	29.5508	.0000	INF.	.0000	.0000	
7	7	7								.0000	.0003	
8	8	8								.0000	.0002	
9	9	9								.0000	.0005	
10	10	10								.0000	.0016	
11	11	11								.0000	.0009	
12	12	12								.0000	.0000	
13	13	13			.0000	.0000	29.3477	.0000	INF.	.0000	.0000	
14	14	14			11.4000	.0000	27.9741	.4075	72.3288	.4075	3.6842	
15	15	15			.0000	.0000	29.4976	.0000	INF.	.0000	.0000	
16	16	16								36.8680	.0016	
17	17	17								53.7094	.0014	
18	18	18								15.5880	.0015	
19	19	19								.7411	2.0202	
20	20	20			20.6394	.0000	27.8506	.7411	39.6016	.7411	1.5480	
21	21	21			27.1078	.0000	27.9755	.9690	30.4189	1.0623	1.4119	
22	22	22			29.7424	.0000	27.9977	1.0623	27.7673	5.5954	.2669	
23	23	23			155.8556	.0000	27.8544	5.5954	5.2450	3.4261	.4375	
24	24	24			95.8506	.0000	27.9765	3.4261	8.6032	9.7427	.0317	
25	25	25								11.6782	.0312	
26	26	26								.0000	.3900	
27	27	27								.0000	.3900	
28	28	28								9.6153	.0058	
29	29	29			604.2391	.0000	28.3765	21.2937	1.3682	21.2937	.0356	
30	30	30			3.6142	.0000	28.4262	.1271	229.5785	.1271	6.0000	
31	31	31								19.0286	.0183	
32	32	32								22.8676	.0206	
33	33	33								20.9964	.0195	
34	34	34								13.5466	.0557	
35	35	35			382.6246	.0000	28.2450	13.5466	2.1407	16.0207	.0471	
36	36	36			452.5842	.0000	28.2500	16.0207	1.8105	11.3128	.0665	
37	37	37			320.5663	.0000	28.3361	11.3128	2.5713	5.4820	.0074	.2000
38	38	38								.6861	.0126	.2000
39	39	39								3.1121	.0091	.2000
40	40	40								6.1609	.0074	.2000
41	41	41								6.5713	.0126	.2

Figure 6.2-43. - Continued

413

Figure 6.2-43. - Continued

104							2.2623	.0000	1.0500	.0007
105							.0000	.0000	1.0500	REVERSED
106							.0000	.0000	1.0500	REVERSED
107							.0000	.0000	1.0500	REVERSED
108							.0020	.0000	1.0500	.0011
109							.0020	.0000		
110	44	680.6878	.0000	27.3374	24.8995	1.1381	24.8995	.0000		
111	45	62.1212	.0000	27.8597	2.2623	1.5640	2.2623	.0000		
112	46	24.7669	.0000	27.4811	36.9025	31.4930	36.9025	1.0889	.3500	.0000
113	47	1001.7602	.0000	27.6122	36.2796	.7977	36.2796	.0365	.3500	.0000
114	48	805.9469	.0000	27.7248	29.0695	.9991	29.0695	.0454	.3500	.0001
115	49	238.5972	.0000	27.8004	8.5825	3.3935	8.5825	.0521	1.0500	.0003
116							.0000	.0521	1.0500	.0003
117							.0000	.1374		
118	50	.0000	.0000	28.2387	.0000	INF.	.0000	.0677		
119	51	.0000	.0000	28.2387	.0000	INF.	.0000	.0691		
120	52	.0000	.0000	28.2387	.0000	INF.	.0000	.0525	.3500	.0024
121							.0000	.0000	.3500	.0024
122							.0000	.0000	.7000	.0015
123	53	.0000	.0000	.0000	.0000	INF.	.0000	.0691	.7000	.0015
124	54	.0000	.0000	.0000	.0000	INF.	.0000	.1063	.7000	.0004
125							.0000	.0321	.7000	.0004
126	55	.0000	.0000	.0000	.0000	INF.	.0000	.0256		
127	56	.0000	.0000	.0000	.0000	INF.	.0000	.0000	.2000	.0004
128							.0000	.0000	.2000	.0004
129							.0000	.0053		
130	57	.0000	.0000	.0000	.0000	INF.	.0000	.0052		
131	58	.0000	.0000	.0000	.0000	INF.	.0000	.0041		
132	59	.0000	.0000	.0000	.0000	INF.	.0000	.0017		
133	60	29.0358	.0000	27.8388	1.0430	27.8388	1.0430	1.8836		
134	61	72.9102	.0000	27.8359	1.1823	24.4216	1.1823	1.8991	.3500	.0002
135	62	15.3084	.0000	27.8318	.5500	52.4950	.5500	1.0555	.3500	.0002
136	63	229.5725	.0000	27.6557	8.3011	3.4373	8.3011	.0967	.3500	.0004
137	64	250.6847	.0000	27.6524	9.0656	3.1471	9.0656	.0961	.3500	.0006
138	65	252.1063	.0000	27.6459	9.1191	3.1262	9.1191	.0961	1.0500	.0006
139							9.0409	.0000	1.0500	.0006
140							9.9327	.0000	1.0500	.0005
141							1.1925	.0000	1.0500	.0005
142							3.8405	.0000	1.0500	.0006
143							2.6961	.0000	1.0500	.0005
144							14.9393	.0000		
145	66	351.5519	.0000	27.2938	12.8803	2.1605	12.8803	.0415		
146	67	344.6224	.0000	27.2903	12.6280	2.1038	12.6280	.0423		
147	68	440.1901	.0000	27.2915	16.1292	1.7252	16.1292	.0331	2.3500	REVERSED
148							.0000	.0000	2.3500	REVERSED
149							.0000	.0000	2.3500	.0015
150							.0000	.0000	2.3500	.0015
151							.0000	.0000	2.3500	.0008
152							.0000	.0000	2.3500	REVERSED
153							.0000	.0237		
154	69	.0000	.0000	26.5336	.0000	INF.	.0000	.0120		
155	70	.0000	.0000	26.5306	.0000	INF.	.0000	.0238		
156	71	.0000	.0000	26.5336	.0000	INF.	.0000	.0010		
157							14.6274	.0008		
158							13.6266	.0009		
159							6.9159	.0009		
160	72	333.8829	.0000	27.8141	12.0041	2.4050	12.0041	.0879		

Figure 6.2-43. - Continued

161	73		244.2234	.0000	27.8149	8.7893	3.2881	8.7803	.1202		
162	74		31.7084	.0000	27.8256	1.1395	25.3346	1.1395	.9165		
163	75		24.8150	.0000	27.6273	.8982	31.7515	.8982	.9929	.3500	.0002
164	76		9.8454	.0000	27.6301	.3563	60.0391	.3563	2.4977	.3500	.0003
165	77		22.1200	.0000	27.6278	.8006	35.6213	.8006	1.1139	.3500	.0003
166									.1343	.0000	.0002
167									1.0634	.0000	.0003
168									4.6226	.0000	.0002
169									3.4187	.0000	.0002
170									.3286	.0000	.0003
171									1.5771	.0000	.0002
172	78		96.7946	.0000	27.2812	3.5480	7.8408	1.5480	.0000	1.0500	.0002
173	79		37.9042	.0000	27.2764	1.3896	20.0195	1.3896	.1517		
174	80		169.0185	.0000	27.2793	6.1959	4.4899	6.1959	.3910		
175	81		.0000	.0000	27.2193	.0000	INF.	.0000	.0871	1.6500	.0005
176	82		.0000	.0000	27.2202	.0000	INF.	.0000	.0000	1.6500	.0005
177	83		.0000	.0000	27.2199	.0000	INF.	.0000	.0000	1.6500	.0005
178									15.4795	.0011	
179									13.0096	.0010	
180									12.4225	.0011	
181	84		410.1215	.0000	27.1679	15.0958	1.8261	15.0958	.0263	1.3000	.0001
182	85		333.7649	.0000	27.1683	12.2851	2.2439	12.2851	.0323	1.3000	.0001
183	86		337.4279	.0000	27.1649	12.4215	2.2189	12.4215	.0319	1.3000	.0001
184									.5462	.0000	.0028
185									.0000	.0000	.0000
186									.0000	.0000	REVERSED
187									.0000	.0000	REVERSED
188	88		14.8418	.0000	27.1759	.5461	50.4733	.5461	.3341	1.3000	.0021
189	89		9.0757	.0000	27.1766	.3340	82.5451	.3340	.7134		
190									1.1667		
191									.0468	.0000	.0013
192									.1758	.0000	.0013
193									.0000	.0000	.0000
194	87		6.0507	.0000	27.1772	.2226	123.8180	.2226	1.7500	1.3000	REVERSED
195									.0001	.0217	.3800
196									.0000	.0410	.3800
197									.0001	.0217	.3900
198									.0000	.0410	.3900
199									.0001	.0217	.3900
200									.0000	.0410	.3900
201									.0001	.0217	.3900
202									.0000	.0410	.3900
203									.0000	.0000	1.0500
204									.0000	.1460	1.0500
205									.0000	.0000	1.0500
206	90		.0000	.0000	.0000	.0000	INF.	.0000	.1460	1.0500	.0053
207									.0000	.1340	
208									.0000	.1310	.2000
209	91		.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
210	92		.0000	.0000	.0000	.0000	INF.	.0000	.0000		
211	93		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212									.0000	.1340	
213									.0000	.1310	.2000
214	94		.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96		.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97		.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-43. - Continued

	MODE	1	TO	10		29.3972	29.5254	29.5508	29.3477	29.4755	29.4976	.0000	.0000	.0000
NODE	11	TO	20		29.1891	29.1335	28.9993	29.0050	29.0883	28.7537	28.7952	28.8574	28.6547	28.6559
NODE	21	TO	30		28.5574	27.6043	27.6052	27.5029	27.5015	28.3478	28.6345	28.6251	.0000	27.3345
NODE	31	TO	40		27.3478	28.2379	28.1956	28.1649	29.2887	29.3947	29.4749	28.3377	28.4232	28.4239
NODE	41	TO	50		28.2387	.0000	.0000	.0000	28.8835	28.8806	28.8763	27.8254	27.8247	27.8257
NODE	51	TO	60		26.5336	26.5306	26.5336	28.8693	28.8702	28.8699	27.8193	27.8198	27.8190	28.8669
NODE	61	TO	70		28.8670	28.8625	27.5658	27.5655	27.5662	28.4893	.0000	28.4802	28.4793	.0000
NODE	71	TO	80		28.4802	.0000	.0000	29.5508	29.5508	29.5508	.0000	.0000	.0000	.0000

SOURCE	FUEL CELL	FUEL CELL	FUEL CELL
SWITCH CON	1	2	3
CURRENT	247.49	249.88	265.94
VOLTAGE	29.53	29.64	29.68
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE			
LOADED	REMAINING	CONSUMED	H ₂ O PROD
(LBS)	(LBS)	(LBS)	(LBS)
O ₂	3124.00	2421.22	702.78
H ₂	388.00	278.90	89.10

*****INVERTER STATUS*****							
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT
C.BUS *****SINGLE PHASE INVERTER*****							
							CURRENT RATIO D.C. POWER (WATT)

Figure 6.2-43. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9413	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7682	680.9586
1C	477.5333	-.6787	6.1185	507.4896	-.9410	4.4130	.7650	.7212	624.2266
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	358.0000	-.7196	4.3261	358.0003	-1.0000	3.1130	.7650	.7196	467.9739
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	565.1333	-.7311	6.7219	593.8504	-.9516	5.1639	.7642	.7682	739.5376
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7647									
ACCUMULATED WATT-HRS OF SOURCES 1003431.43 AND LOADS 945034.09 942600.47									

Figure 6.2-44.- Circuit solution at 2 days 6 hours 31 minutes 4 seconds

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 54.51778 TIME STEP .00417 NEXT INPUT TIME 54.52889													
TOTAL SOURCE POWER 24571.6204 TOTAL DC/AC LOAD 22810.7498 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 8													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	DIODE OR RPC VOLTAGE RESISTANCE	SHUNT

1	1	1	29.32	271.13						271.1304	.0006		
2	2	1	29.44	271.84						271.8410	.0005		
3	3	1	29.47	292.44						292.4359	.0005		
4	1	1			.0000	.0000	29.1741	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	29.3132	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	29.3258	.0000	INF.	.0000	.0000		
7		0								.0000	.0003		
8		0								.0000	.0002		
9		0								.0000	.0005		
10		0								.0000	.0016		
11		0								.0000	.0002		
12		0								.0000	.0009		
13		0			.0000	.0000	29.1199	.0000	INF.	.0000	.0000		
14	5	1			11.4000	.0000	27.7450	.4109	71.2095	.4109	3.6842		
15	6	1			.0000	.0000	29.2673	.0000	INF.	.0000	.0000		
16		0								36.7603	.0016		
17		0								55.7543	.0014		
18		0								15.4530	.0015		
19	7	1			20.4141	.0000	27.6271	.7389	39.4090	.7389	2.0202		
20	8	1			26.8899	.0000	27.7594	.9687	30.2049	.9687	1.5480		
21	9	1			29.3446	.0000	27.7756	1.0565	27.7024	1.0565	1.4119		
22	10	1			153.5838	.0000	27.6368	5.5572	5.2400	5.5572	.2669		
23	11	1			94.5324	.0000	27.7695	3.4042	8.5950	3.4042	.4375		
24		0								9.6891	.0317		
25		0								11.6141	.0312		
26		0								.0000	.3900		
27		0								.0000	.3900		
28		0								9.5629	.0058		
29	12	1			596.1768	.0000	28.1523	21.1768	1.3649	21.1768	.0356		
30	15	1			3.5547	.0000	28.2042	.1260	229.7819	.1260	6.0000		
31		0								19.7349	.0183		
32		0								23.5117	.0206		
33		0								21.0023	.0195		
34		0								14.8648	.0505		
35	16	1			416.3389	.0000	28.0084	14.8648	1.9347	15.9259	.0471		
36	17	1			446.3173	.0000	28.0245	15.9259	1.8068	11.2900	.0665		
37	18	1			317.3307	.0000	28.1071	11.2900	2.5560	4.8702	.0074	.2000	.0009
38		0								4.7299	.0126	.2000	.0016
39		0								3.1384	.0091	.2000	.0008
40		0								6.8564	.0074	.2000	.0009
41		0								6.5738	.0126	.2000	.0016
42		0											
43		0											

Figure 6.2-44. - Continued

45	19	326.7526	.0000	27.8654	11.7261	2.4320	- .0000	.0091	.2000 REVERSED
46	20	203.8583	.0000	27.9132	7.3033	3.9112	11.7261	.0057	
47	21	87.8000	.0000	27.9761	3.1384	9.1214	7.3033	.0092	
48							3.1384	.2073	
49							145.2622	.0057	
50							136.4182	.0071	
51	22	438.3306	.0000	27.0094	16.2288	1.7218	200.9249	.0048	
52	23	392.2658	.0000	27.0062	14.5250	1.9238	16.2288	.0573	.3500 .0002
53	24	787.3979	.0000	26.9883	29.1753	.9579	14.5250	.0643	.3500 .0002
54	25	2051.6640	.0000	27.9370	73.4383	.3853	29.1753	.0327	.3500 .0002
55	26	1351.6209	.0000	28.0598	48.1693	.5874	73.4383	.0049	
56	27	1941.4548	.0000	27.9594	69.4383	.4075	48.1693	.0049	
57							69.4383	.0000	1.0500 .0002
58							20.3653	.0000	1.0500 .0002
59							16.7931	.0000	1.0500 .0002
60							8.3620	.0000	1.0500 .0002
61							21.2576	.0000	1.0500 .0002
62							29.8509	.0000	1.0500 .0005
63	28	1108.3618	.0000	26.6314	41.6186	.6545	2.8976	.0146	
64	29	1242.2765	.0000	26.6354	46.5401	.5840	41.6186	.0130	
65	30	300.0059	.9000	26.6503	11.2571	2.4200	46.5401	.0525	
66							11.2571	.0000	1.0500 .0001
67							33.1593	.0000	1.0500 .0001
68							31.4557	.0000	1.0500 .0001
69	31	3299.4578	.0000	26.6307	123.8967	.2199	59.2748	.0049	
70							123.8967	.0079	
71							.8539	.0085	
72							2.4970	.0067	1.3000 .0005
73	32	22.6093	.0000	26.5571	.8513	31.6988	4.7920	.5040	.0003
74	33	66.1911	.0000	26.5428	2.4937	10.8160	.8513	.1720	.0008
75	34	127.1399	.0000	26.5321	4.7919	5.6271	2.4937	.0895	.0005
76							4.7919	.0000	1.3000 REVERSED
77							-.0011	.0000	1.3000 REVERSED
78							-.0000	.0000	1.3000 .0005
79							-.0016	.0000	
80							.0000	.0000	
81							.0000	.0000	
82							.0000	.0000	
83	36	.0000	.0000	26.9724	.0000	INF.	.0000	.2526	1.4000 REVERSED
84	37	.6000	.0000	26.9866	.0000	INF.	.0000	.1970	1.0500 .0026
85							.2183	.1955	1.0500 .0026
86							.3362	.1900	1.0500 .0026
87							.5889	.2058	1.4000 REVERSED
88							.0000	.1499	1.0500 .0026
89							1.2030	.1372	1.0500 .0026
90							1.2883	.0894	1.0500 .0026
91							2.4711	.2221	1.4000 REVERSED
92							.0000	.0212	3.9000 .0002
93							.1970	.0212	3.9000 .0002
94	38	4.7489	.0000	24.1103	.1970	122.4310	.1965	.0538	3.9000 .0006
95	39	4.7289	.0000	24.0633	.1965	122.4687	.1932	.3679	
96	40	4.6428	.0000	24.0340	.1932	124.4698	1.6802	.2476	
97	41	46.0305	.0000	27.3965	1.6802	11.2192	2.4928	.4582	
98	42	68.1798	.0000	27.3503	2.4928	20.7610	1.3460	.0073	
99	43	36.7834	.0000	27.3278	1.3460		63.0756	.0117	
100							51.3731	.0189	1.0500 .0003
101							32.6439	.0000	
102							25.0730		
103									

Figure 6.2-44. - Continued

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Figure 6.2-44. - Continued

161	73	1	243.7274	.0000	27.5833	8.8361	3.2419	8.8361	.1202		
162	74	1	31.2450	.0000	27.6077	1.1317	25.4104	1.1317	.9165		
163	75	1	24.8150	.0000	27.3947	.9058	31.2358	.9058	.9929	.3500	.0002
164	76	1	9.8331	.0000	27.3987	.3589	78.8413	.3589	2.4977	.3500	.0003
165	77	1	22.1200	.0000	27.3953	.8074	35.0429	.8074	1.1139	.3500	.0003
166		1				.0132		.0132	.0000	1.0500	.0002
167		1				1.1190		1.1190	.0000	1.0500	.0003
168		1				4.6527		4.6527	.0000	1.0500	.0002
169		1				3.5179		3.5179	.0000	1.0500	.0002
170		1				.2520		.2520	.0000	1.0500	.0003
171		1				1.5470		1.5470	.0000	1.0500	.0002
172	78	1	95.5698	.0000	27.0533	3.5326	.7.8112	3.5326	.1531		
173	79	1	37.0000	.0000	27.0462	1.3680	20.1712	1.3680	.4011		
174	80	1	167.7067	.0000	27.0509	6.1997	4.4509	6.1997	.0876		
175	81	1	.0000	.0000	26.9944	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	1	.0000	.0000	26.9952	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	1	.0000	.0000	26.9949	.0000	INF.	.0000	.0000	1.6500	.0005
178		1						.0000	.0011		
179		1						15.4012	.0011		
180		1						13.0266	.0010		
181	84	1	405.9791	.0000	26.9437	15.0677	1.8146	15.0677	.0263	1.3000	.0001
182	85	1	330.3871	.0000	26.9442	12.2619	2.2299	12.2619	.0323	1.3000	.0001
183	86	1	333.6759	.0000	26.9411	12.3854	2.2072	12.3854	.0319	1.3000	.0001
184		1						5422	.0000	1.3000	.0028
185		1						.0000	.0000	1.3000	REVERSED
186		1						.0000	.0000	1.3000	REVERSED
187		1						.0000	.0000	1.3000	REVERSED
188	88	1	14.6108	.0000	26.9540	.5421	50.4382	.5421	.7134	1.3000	.0021
189	89	1	8.9343	.0000	26.9545	.3315	82.4876	.3315	1.1667	1.3000	REVERSED
190		1						.0000	.0000	1.3000	.0013
191		1						.2210	.0000	1.3000	REVERSED
192		1						.0000	.0000	1.3000	REVERSED
193	87	1	5.9565	.0000	26.9553	.2210	123.7317	.2210	1.7500		
194		1						.0001	.0217	.3800	.0020
195		1						.0000	.0410	.3800	.0021
196		1						.0001	.0217	.3900	.0025
197		1						.0000	.0410	.3900	.0024
198		1						.0001	.0217	.3900	.0022
199		1						.0000	.0410	.3900	.0021
200		1						.0001	.0217	.3900	.0023
201		1						.0000	.0410	.3900	.0021
202		1						.0000	.0000	1.0500	.0053
203		1						.0000	.1860	1.0500	.0053
204		1						.0000	.0000	1.0500	.0053
205		1						.0000	.1460	1.0500	.0053
206	90	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207		1						.0000	.1310	.2000	.0023
208		1						.0000	.1310	.2000	.0023
209	91	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212		1						.0000	.1340		
213		1						.0000	.1310	.2000	.0023
214	94	1	.0000	.0000	.0000	.0000	INF.	.0000	.1310	.2000	.0023
215	95	1	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
216	96	1	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
217	97	1	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-44. - Continued

218		0					.0000	.0070		
219		0					.0000	.0062		
220	98	0	.0000	.0000	.0000	INF.	.0000	.0000		
221		0					.0000	.0000		
222		0					.0000	.0000		
223	99	0	.0000	.0000	.0000	INF.	.0000	.0000		
224	100	0	.0000	.0000	.0000	INF.	.0000	.0000		
225		0					.0000	.0007		
226		0					.0000	.0002		
227		1				.	.0215	.0002		
228		1					.0010	.0002		
229		1					.0000	.0002		
230	101	1	.0000	.0000	29.3258	INF.	.0000	.0022		
231		1					271.1260	.0002		
232		1					271.8385	.0002		
233		1					292.3882	.0002		
234	102	0	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007
235	103	0	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008
236	104	0	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0007
237	105	0	.0000	.0000	.0000	INF.	.0000	.1850	.6500	.0008
240	108	0	.0000	.0000	.0000	INF.	.0000	.0000		

	NODE	1	TO	10	28.0000	29.1741	29.3132	29.3258	29.1199	29.2588	29.2673	.0000	.0000	.0000
	NODE	11	TO	20	28.9604	28.9052	28.7585	28.7251	29.2578	29.2580	28.5647	28.6267	28.2934	28.2935
	NODE	21	TO	30	28.8607	27.7391	27.6166	27.7417	29.2399	28.2856	28.2724	28.2645	.0000	28.9724
	NODE	31	TO	40	28.7610	26.6166	26.5675	27.9445	29.0611	29.1780	29.2447	28.1210	28.1931	28.1937
	NODE	41	TO	50	28.6613	.0000	.0000	.0000	28.6586	28.6558	28.6513	27.6034	27.5998	27.6006
	NODE	51	TO	60	28.5616	28.3088	28.3086	28.6444	28.6452	28.6449	27.5943	27.5949	27.5941	28.5941
	NODE	61	TO	70	28.4619	28.2090	28.2088	27.5407	27.5412	28.2843	.0000	28.2552	28.2552	.0000
	NODE	71	TO	80	28.3622	.0000	.0000	27.3820	29.3258	29.3258	.0000	.0000	.0000	.0000

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE SWITCH CON	1	2	3
CURRENT	271.13	271.84	292.44
VOLTAGE	29.32	29.44	29.47
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

CRYOGEN USAGE			
	LOADED	REMAINING	CONSUMED
	(LBS)	(LBS)	H2O PROD (LBS)
02	3124.00	2419.78	704.22
H2	368.00	278.72	89.28

*****INVERTER STATUS*****									
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)
*****SINGLE PHASE INVERTER*****									

Figure 6.2-44. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7619	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	477.5333	-.6787	6.1185	507.4896	-.9410	4.4130	.7650	.7212	624.2266
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.6863
2C	358.0000	-.7196	4.3261	358.0003	-1.0000	3.1130	.7650	.7196	467.9739
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0647
3C	565.1333	-.7311	6.7219	593.8504	-.9516	5.1639	.7642	.7682	739.5376
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7647									
ACCUMULATED WATT-HRS OF SOURCES 1005444.82 AND LOADS 946903.68 944470.07									

Figure 6.2-45.-Circuit solution at 2 days 6 hours 31 minutes 44 seconds (Stoproll)

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 54.52889 TIME STEP .01111 NEXT INPUT TIME 54.54555													
TOTAL SOURCE POWER 23752.9531 TOTAL DC/AC LOAD 22079.1516 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 6													
BRANCH NO RN SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR VOLTAGE	RPC RESISTANCE	SHUNT

1	29.42	260.32						260.3172	.0006				
2	29.52	262.68						262.6751	.0005				
3	29.55	282.20						282.1957	.0005				
4			.0000	.0000	29.2753	.0000	INF.	.0000	.0000				
5			.0000	.0000	29.4018	.0000	INF.	.0000	.0000				
6			.0000	.0000	29.4127	.0000	INF.	.0000	.0000				
7								.0000	.0003				
8								.0000	.0002				
9								.0000	.0015				
10								.0000	.0016				
11								.0000	.0002				
12			.0000	.0000	29.2232	.0000	INF.	.0000	.0009				
13			11.4000	.0000	27.8406	.4095	71.6754	.4095	3.6842				
14			.0000	.0000	29.3563	.0000	INF.	.0000	.0000				
15								36.8965	.0016				
16								56.4840	.0014				
17								14.0162	.0015				
18			20.5162	.0000	27.7284	.7399	59.4962	.7399	2.0202				
19			26.9808	.0000	27.8496	.9688	30.2942	.9688	1.5480				
20			29.4983	.0000	27.8614	1.0588	27.7273	1.0588	1.4119				
21			154.6135	.0000	27.7355	5.5740	5.2422	5.5746	.2669				
22			95.0823	.0000	27.8559	3.4134	8.5983	3.4134	.4375				
23								8.7538	.0317				
24								10.4905	.0312				
25								.0000	.3900				
26								.0000	.3900				
27								8.6269	.0058				
28			540.5343	.0000	28.2744	19.1174	1.5185	19.1174	.0395				
29			3.5856	.0000	28.3194	.1266	229.6721	.1266	6.0000				
30								19.4852	.0163				
31								22.8978	.0206				
32								20.7028	.0195				
33								14.3019	.0526				
34			402.0940	.0000	28.1147	14.3019	2.0184	15.3655	.0490				
35			432.1855	.0000	28.1257	15.3655	1.8794	11.2995	.0665				
36			318.6601	.0000	28.2014	11.2995	2.5623	5.1634	.0074	.2000	.0009		
37								1.0075	.0126	.2000	.0016		
38								3.1274	.0091	.2000	.0008		
39								6.5248	.0074	.2000	.0009		
40								6.2755	.0126	.2000	.0016		
41													
42													
43													

Figure 6.2-45. - Continued

44	19		326.9509	.0000	27.9733	11.6880	2.4490	- .0000	.0091	.2000	REVERSED
45	20		204.0265	.0000	28.0141	7.2830	3.9357	11.6880	.0557		
47	21		87.8000	.0000	28.0733	3.1275	9.1835	7.2830	.0892		
48								3.1275	.2073		
49								147.0832	.0057		
50								136.0769	.0071		
51	22		459.2258	.0000	27.1033	16.9435	1.6547	200.1696	.0048		
52	23		394.1299	.0000	27.0994	14.5439	1.9277	16.9435	.0548	.3500	.0002
53	24		826.5068	.0000	27.0954	30.5149	.9189	14.5439	.0642	.3500	.0002
54	25		2051.6440	.0000	28.0311	73.1919	.3878	30.5149	.0311	.3500	.0002
55	26		1351.6209	.0000	28.1534	48.0093	.5913	73.1919	.0049		
56	27		1941.4548	.0000	28.0532	69.2062	.4102	48.0093	.0049		
57								69.2062	.0049		
58								20.5753	.0000	1.0500	.0002
59								17.0153	.0000	1.0500	.0002
60								8.1330	.0000	1.0500	.0005
61								20.9114	.0000	1.0500	.0002
62								29.4824	.0000	1.0500	.0002
63	28		1108.6348	.0000	26.7263	41.4811	.6589	3.1092	.0000	1.0500	.0005
64	29		1243.0261	.0000	26.7299	46.5032	.5878	41.4811	.0146		
65	30		300.6367	.0000	26.7439	11.2413	2.4316	46.5032	.0130		
66								11.2413	.0525		
67								33.0531	.0000	1.0500	.0001
68								52.4115	.0000	1.0500	.0001
69	31		3299.6964	.0000	26.7257	123.4658	.2219	57.9813	.0000	1.0500	.0001
70								123.4658	.0049		
71								.8264	.0079		
72								2.5217	.0085		
73	32		21.9421	.0000	26.6489	.8234	32.8886	4.8076	.0067		
74	33		67.0761	.0000	26.6340	2.5184	10.7467	.8234	.5228	1.3000	.0005
75	34		127.9915	.0000	26.6232	4.8075	5.6281	2.5184	.1708	1.3000	.0003
76								4.8075	.0895	1.3000	.0008
77								.0006	.0000	1.3000	.0005
78								.0000	.0000	1.3000	REVERSED
79								.0000	.0000	1.3000	REVERSED
80								.0006	.0000	1.3000	REVERSED
81	36		.0000	.0000	27.0650	.0000	INF.	.0000	.0000	1.3000	.0005
82	37		.0000	.0000	27.0797	.0000	INF.	.0000	.0000		
83								.0000	.0000		
84								.0000	.0000		
85								.0000	.2526	1.4000	REVERSED
86								.2619	.1970	1.0500	.0026
87								.3775	.1955	1.0500	.0026
88								.5659	.1900	1.0500	.0026
89								.0000	.2058	1.4000	REVERSED
90								1.1667	.1499	1.0500	.0026
91								1.2969	.1372	1.0500	.0026
92								2.4359	.0894	1.0500	.0026
93								.0000	.2221	1.4000	REVERSED
94	38		4.7870	.0000	24.2003	.1978	122.3625	.1978	.0212	.9000	.0002
95	39		4.7690	.0000	24.1576	.1974	122.3944	.1974	.0212	.9000	.0002
96	40		4.6824	.0000	24.1288	.1941	124.3924	.1941	.0538	3.9000	.0006
97	41		46.3109	.0000	27.4846	1.6850	16.6755	1.6850	.3679		
98	42		68.6169	.0000	27.4428	2.5004	11.2231	2.5004	.2476		
99	43		37.0209	.0000	27.4208	1.3501	20.7683	1.3501	.4582		
100								50.5564	.0073		
101								42.4262	.0117		
102								26.9518	.0189		
103								25.0006	.0000	1.0500	.0003

Figure 6.2-45. - Continued

[illegible]

Figure 6.2-45. - Continued

161	73		241.1236	.0000	27.7847	8.7503	3.2960	8.7503	.1207		
162	74		.3195	.0000	27.7973	1.1627	24.8052	1.1627	.8974		
163	75		24.8150	.0000	27.5969	.8992	31.6838	.8992	.9929	.3500	.0002
164	76		9.8438	.0000	27.6000	.3567	79.8826	.3567	2.4977	.3500	.0003
165	77		22.1200	.0000	27.5977	.8015	35.5460	.8015	1.1139	.3500	.0003
166						.0000		.0000	.0000	1.0500	REVERSED
167						.9066		.9066	.0000	1.0500	.0003
168						5.1471		5.1471	.0000	1.0500	.0002
169						1.5132		1.5132	.0000	1.0500	.0002
170						.4521		.4521	.0000	1.0500	.0003
171						1.0225		1.0225	.0000	1.0500	.0002
172	78		95.8481	.0000	27.2514	3.5172	7.9012	3.5172	.1531		
173	79		37.0000	.0000	27.2459	1.3580	20.4643	1.3580	.4011		
174	80		168.0609	.0000	27.2495	6.1675	4.5058	6.1675	.0876		
175	81		.0000	.0000	27.1899	.0000	INF.	.0000	.0000	1.6500	.0005
176	82		.0000	.0000	27.1909	.0000	INF.	.0000	.0000	1.6500	.0005
177	83		.0000	.0000	27.1907	.0000	INF.	.0000	.0000	1.6500	.0005
178						.8820		.8820	.0011		
179						7.1977		7.1977	.0011		
180						6.5024		6.5024	.0011		
181	84		228.1208	.0000	27.1389	8.4057	3.2768	8.4057	.0481	1.3000	.0001
182	85		178.2200	.0000	27.1384	6.5671	4.1942	6.5671	.0616	1.3000	.0001
183	86		176.4344	.0000	27.1376	8.5015	4.2360	8.5015	.0618	1.3000	.0001
184						.2459		.2459	.0000	1.3000	.0028
185						.0000		.0000	.0000	1.3000	REVERSED
186						.0000		.0000	.0000	1.3000	REVERSED
187						.3338		.3338	.0000	1.3000	.0021
188	88		14.8179	.0000	27.1529	.5457	50.4694	.5457	.7134		
189	89		9.0612	.0000	27.1538	.3337	82.5388	.3337	1.1667		
190						.1396		.1396	.0000	1.3000	.0013
191						.0831		.0831	.0000	1.3000	.0013
192						.0000		.0000	.0000	1.3000	REVERSED
193			6.0410	.0000	27.1543	.2225	123.8084	.2225	1.7500		
194	87					.0001		.0001	.0217	.3800	.0020
195						.0000		.0000	.0410	.3800	.0021
196						.0001		.0001	.0217	.3900	.0025
197						.0000		.0000	.0410	.3900	.0024
198						.0001		.0001	.0217	.3900	.0022
199						.0000		.0000	.0410	.3900	.0021
200						.0001		.0001	.0217	.3900	.0023
201						.0000		.0000	.0410	.3900	.0021
202						.0000		.0000	.0000	1.0500	.0053
203						.0000		.0000	.1460	1.0500	.0053
204						.0000		.0000	.0000	1.0500	.0053
205						.0000		.0000	.1460	1.0500	.0053
206	90		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207						.0000		.0000	.1310	.2000	.0023
208						.0000		.0000	.1310	.2000	.0023
209	91		.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212						.0000		.0000	.1310	.2000	.0023
213						.0000		.0000	.1310	.2000	.0023
214	94		.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95		.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96		.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97		.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-45. - Continued

428

	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SOURCE	1	2	3
SWITCH CON	1	1	1
CURRENT	260.32	262.68	282.20
VOLTAGE	29.42	29.52	29.55
PAPASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

*****INVERTER STATUS*****

*****A.C. BUS*****				*****INVERTER STATUS*****				*****SINGLE PHASE INVERTER*****		CURRENT	D.C.
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	RATIO	POWER (WATT)		
1	100	0.95	1.0	100	0.95	1.0	95	1.00	100		
2	200	0.95	2.0	200	0.95	2.0	95	1.00	200		
3	300	0.95	3.0	300	0.95	3.0	95	1.00	300		
4	400	0.95	4.0	400	0.95	4.0	95	1.00	400		
5	500	0.95	5.0	500	0.95	5.0	95	1.00	500		
6	600	0.95	6.0	600	0.95	6.0	95	1.00	600		
7	700	0.95	7.0	700	0.95	7.0	95	1.00	700		
8	800	0.95	8.0	800	0.95	8.0	95	1.00	800		
9	900	0.95	9.0	900	0.95	9.0	95	1.00	900		
10	1000	0.95	10.0	1000	0.95	10.0	95	1.00	1000		
11	1100	0.95	11.0	1100	0.95	11.0	95	1.00	1100		
12	1200	0.95	12.0	1200	0.95	12.0	95	1.00	1200		
13	1300	0.95	13.0	1300	0.95	13.0	95	1.00	1300		
14	1400	0.95	14.0	1400	0.95	14.0	95	1.00	1400		
15	1500	0.95	15.0	1500	0.95	15.0	95	1.00	1500		
16	1600	0.95	16.0	1600	0.95	16.0	95	1.00	1600		
17	1700	0.95	17.0	1700	0.95	17.0	95	1.00	1700		
18	1800	0.95	18.0	1800	0.95	18.0	95	1.00	1800		
19	1900	0.95	19.0	1900	0.95	19.0	95	1.00	1900		
20	2000	0.95	20.0	2000	0.95	20.0	95	1.00	2000		
21	2100	0.95	21.0	2100	0.95	21.0	95	1.00	2100		
22	2200	0.95	22.0	2200	0.95	22.0	95	1.00	2200		
23	2300	0.95	23.0	2300	0.95	23.0	95	1.00	2300		
24	2400	0.95	24.0	2400	0.95	24.0	95	1.00	2400		
25	2500	0.95	25.0	2500	0.95	25.0	95	1.00	2500		
26	2600	0.95	26.0	2600	0.95	26.0	95	1.00	2600		
27	2700	0.95	27.0	2700	0.95	27.0	95	1.00	2700		
28	2800	0.95	28.0	2800	0.95	28.0	95	1.00	2800		
29	2900	0.95	29.0	2900	0.95	29.0	95	1.00	2900		
30	3000	0.95	30.0	3000	0.95	30.0	95	1.00	3000		
31	3100	0.95	31.0	3100	0.95	31.0	95	1.00	3100		
32	3200	0.95	32.0	3200	0.95	32.0	95	1.00	3200		
33	3300	0.95	33.0	3300	0.95	33.0	95	1.00	3300		
34	3400	0.95	34.0	3400	0.95	34.0	95	1.00	3400		
35	3500	0.95	35.0	3500	0.95	35.0	95	1.00	3500		
36	3600	0.95	36.0	3600	0.95	36.0	95	1.00	3600		
37	3700	0.95	37.0	3700	0.95	37.0	95	1.00	3700		
38	3800	0.95	38.0	3800	0.95	38.0	95	1.00	3800		
39	3900	0.95	39.0								

Figure 6.2-45. - Concluded

1A	570.1333	-.7274	6.8155	601.8582	-.9473	5.2335	.7638	.7679	746.4588
1B	520.9333	-.7115	6.3665	547.8024	-.9510	4.7635	.7650	.7482	680.9586
1C	477.5333	-.6787	6.1185	507.4896	-.9410	4.4130	.7650	.7212	624.2266
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .7646									
2A	347.2800	-.7433	4.0629	348.7910	.9957	3.0330	.7650	.7465	453.9608
2B	328.7100	-.7303	3.9140	330.8440	.9935	2.8769	.7650	.7350	429.8663
2C	358.0000	-.7196	4.3261	358.0003	-1.0000	3.1130	.7650	.7196	467.9739
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .7650									
3A	435.9333	-.6998	5.4171	447.2638	-.9747	3.8893	.7650	.7180	569.8475
3B	483.5333	-.7181	5.8555	499.0934	-.9688	4.3399	.7650	.7412	632.0697
3C	565.1333	-.7311	6.7219	593.8504	-.9516	5.1639	.7642	.7682	739.5376
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .7647									
ACCUMULATED WATT-HRS OF SOURCES 1005717.78 AND LOADS 947156.83 944723.22									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
* CHAR UN/FLOW AT 020154									
END OF FILE ENCOUNTERED ON UNIT 19									

Figure 6.2-46.- Circuit solution at end of mission

DC DISTRIBUTION NETWORK STATUS													

MISSION ELAPSED TIME 54.75000 TIME STEP .00045 NEXT INPUT TIME *****													
TOTAL SOURCE POWER 339.6208 TOTAL DC/AC LOAD 335.9700 REFERENCE NODE 1 ACCURACY .0010 SOLUTIONS ATTEMPTED 19													
BRANCH NO	RN	SW	SOURCE VOLTAGE	SOURCE CURRENT	LOAD PP	LOAD PR	LOAD VOLTAGE	LOAD CURRENT	LOAD RESISTANCE	BRANCH CURRENT	BRANCH RESISTANCE	VOLTAGE	DIODE OR RPC RESISTANCE SHUNT

1	1	1	32.64	3.50						3.4966	.0006		
2	2	1	32.59	3.45						3.4973	.0005		
3	3	1	32.59	3.47						3.4699	.0005		
4	1	1			.0000	.0000	32.6407	.0000	INF.	.0000	.0000		
5	2	1			.0000	.0000	32.5872	.0000	INF.	.0000	.0000		
6	3	1			.0000	.0000	32.5854	.0000	INF.	.0000	.0000		
7										.0000	.0003		
8										.0000	.0002		
9										.0000	.0005		
10										.0000	.0016		
11										.0000	.0002		
12										.0000	.0009		
13	4	1			.0000	.0000	32.6400	.0000	INF.	.0000	.0000		
14	5	1			.0000	.0000	32.5865	.0000	INF.	.0000	.0000		
15	6	1			.0000	.0000	32.5847	.0000	INF.	.0000	.0000		
16										.0107	.0016		
17										.0010	.0014		
18										.0007	.0015		
19	7	1			.0000	.0000	32.6400	.0000	INF.	.0000	.0000		
20	8	1			.0000	.0000	32.5865	.0000	INF.	.0000	.0000		
21	9	1			.0000	.0000	32.5847	.0000	INF.	.0000	.0000		
22	10	1			.0000	.0000	32.6400	.0000	INF.	.0000	.0000		
23	11	1			.0000	.0000	32.5865	.0000	INF.	.0000	.0000		
24										.0002	.0317		
25										.0002	.0312		
26										.0000	.3900		
27										.0000	.3900		
28										.0000	.0058		
29	12	1			.0000	.0000	32.5847	.0000	INF.	.0000	.0000		
30	15	1			.0000	.0000	32.5847	.0000	INF.	.0000	.0000		
31										.0001	.0183		
32										.0001	.0206		
33										.0000	.0195		
34										.0000	.0000		
35										.0000	.0000		
36	16	1			.0000	.0000	32.6400	.0000	INF.	.0000	.0000		
37	17	1			.0000	.0000	32.5865	.0000	INF.	.0000	.0000		
38	18	1			.0000	.0000	32.5847	.0000	INF.	.0000	.0000		
39										.0000	.0074		
40										.0000	.0126		
41										.0000	.0091		
42										.0000	.0074		
43										.0000	.0126		

.2000 .0009
 .2000 .0016
 .2000 REVERSED
 .2000 REVERSED
 .2000 REVERSED

430

Figure 6.2-46. - Continued

431

Figure 6.2-46. - Continued

OF POOR QUALITY

Figure 6.2-46. - Continued

161	73	.0000	.0000	32.5864	.0000	INF.	.0000	.0000		
162	74	.0000	.0000	32.5846	.0000	INF.	.0000	.0000		
163	75	.0000	.0000	32.2897	.0000	INF.	.0000	.0000	.3500	.0002
164	76	.0000	.0000	32.2364	.0000	INF.	.0000	.0000	.3500	.0003
165	77	.0000	.0000	32.2346	.0000	INF.	.0000	.0000	.3500	.0003
166							.0008	.0000	1.0500	.0002
167							.0023	.0000	1.0500	.0003
168							.0000	.0000	1.0500	REVERSED
169							.0000	.0000	1.0500	REVERSED
170							.0000	.0000	1.0500	REVERSED
171							.0015	.0000	1.0500	.0002
172	78	.0000	.0000	31.5897	.0000	INF.	.0000	.0000		
173	79	.0000	.0000	31.5364	.0000	INF.	.0000	.0000		
174	80	.0000	.0000	31.5897	.0000	INF.	.0000	.0000		
175	81	.0000	.0000	30.9897	.0000	INF.	.0000	.0000	1.6500	.0005
176	82	.0000	.0000	30.9364	.0000	INF.	.0000	.0000	1.6500	.0005
177	83	.0000	.0000	30.9346	.0000	INF.	.0018	.0011	1.6500	.0005
178							.0005	.0010		
179							.0000	.0011		
180	84	.0000	.0000	31.3397	.0000	INF.	.0000	.0000	1.3000	.0001
181	85	.0000	.0000	31.2864	.0000	INF.	.0000	.0000	1.3000	.0001
182	86	.0000	.0000	31.2846	.0000	INF.	.0000	.0000	1.3000	.0001
183							.0003	.0000	1.3000	.0028
184							.0000	.0000	1.3000	REVERSED
185							.0000	.0000	1.3000	REVERSED
186							.0004	.0000	1.3000	.0021
187							.0000	.0000		
188	88	.0000	.0000	31.2864	.0000	INF.	.0000	.0000		
189	89	.0000	.0000	31.3397	.0000	INF.	.0000	.0000		
190							.0002	.0000	1.3000	.0013
191							.0000	.0000	1.3000	REVERSED
192							.0000	.0000	1.3000	REVERSED
193	87	.0000	.0000	31.3397	.0000	INF.	.0000	.0000		
194							.0000	.0217	.3800	.0020
195							.0000	.0410	.3800	.0021
196							.0000	.0217	.3900	.0025
197							.0000	.0410	.3900	.0024
198							.0000	.0217	.3900	.0022
199							.0000	.0410	.3900	.0021
200							.0000	.0217	.3900	.0023
201							.0000	.0410	.3900	.0021
202							.0000	.0000	1.0500	.0053
203							.0000	.1460	1.0500	.0053
204							.0000	.0000	1.0500	.0053
205							.0000	.1460	1.0500	.0053
206	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
207							.0000	.1310	.2000	.0023
208							.0000	.1310	.2000	.0023
209	91	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
210	92	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
211	93	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
212							.0000	.1310	.2000	.0023
213							.0000	.1310	.2000	.0023
214	94	.0000	.0000	.0000	.0000	INF.	.0000	.0000		
215	95	.0000	.0000	.0000	.0000	INF.	.0000	.1340		
216	96	.0000	.0000	.0000	.0000	INF.	.0000	.9370		
217	97	.0000	.0000	.0000	.0000	INF.	.0000	.9370		

Figure 6.2-46. - Continued

218	0									.0000	.0070		
219	0									.0000	.0062		
220	98	1		.0000	.0000	.0000	.0000	INF.		.0000	.0000		
221	0									.0000	.0000		
222	0									.0000	.0000		
223	99	0		.0000	.0000	.0000	.0000	INF.		.0000	.0000		
224	100	0		.0000	.0000	.0000	.0000	INF.		.0000	.0000		
225	0									.0000	.0007		
226	0									.0000	.0002		
227	0									.0072	.0002		
228	0									.0021	.0002		
229	0									.0019	.0002		
230	101	1		.0000	.0000	32.5853	.0000	INF.		.0000	.0022		
231	0									3.4952	.0002		
232	0									3.4475	.0002		
233	0									3.4475	.0002		
234	132	0		.0000	.0000	.0000	.0000	INF.		.0000	.1850	.6500	.0007
235	103	0		.0000	.0000	.0000	.0000	INF.		.0000	.1850	.6500	.0008
236	104	0		.0000	.0000	.0000	.0000	INF.		.0000	.1850	.6500	.0007
237	105	0		.0000	.0000	.0000	.0000	INF.		.0000	.1850	.6500	.0008
240	108	0		.0000	.0000	.0000	.0000	INF.		.0000	.0000		

434	MODE 1 TO 10	.0000	32.6407	32.5872	32.5854	32.6400	32.5865	32.5847	.0000	.0000	.0000
	MODE 11 TO 20	32.5847	32.5847	32.6400	32.5865	32.5847	32.4400	32.5865	32.4400	32.6203	32.5622
	MODE 21 TO 30	32.5880	31.5703	31.5180	31.5703	31.5703	32.6203	32.5622	32.5680	.0000	31.2580
	MODE 31 TO 40	31.3203	31.5365	31.5899	31.5899	32.6399	32.5865	32.5847	31.5899	31.5365	31.5899
	MODE 41 TO 50	31.5899	.0000	.0000	.0000	32.6397	32.5864	32.5846	31.5897	31.5897	32.6397
	MODE 51 TO 60	30.2897	30.2364	30.2897	32.6397	32.5864	32.5846	31.5897	31.5364	31.5897	.0000
	MODE 61 TO 70	32.5864	32.5846	31.3397	31.2864	31.3397	32.2597	.0000	32.1964	32.2897	.0000
	MODE 71 TO 80	32.1964	.0000	.0000	32.5853	32.5853	32.5853	.0000	.0000	.0000	.0000

SOURCE	FUEL CELL 1	FUEL CELL 2	FUEL CELL 3
SWITCH CON	1	1	1
CURRENT	3.50	3.45	3.47
VOLTAGE	32.64	32.59	32.59
PARASITIC	.0000	.0000	.0000
TEMP	180.0000	180.0000	180.0000
SOC			
AH REMAIN			

	LOADED	REMAINING	CONSUMED	H2O PROD
	(LBS)	(LBS)	(LBS)	(LBS)
O2	3124.00	2415.60	708.40	796.98
H2	368.00	278.19	89.81	

*****INVERTER STATUS*****									
*****SINGLE PHASE INVERTER*****									
INVERTER	LOAD (WATT)	PWR. FAC.	CURRENT (AMP)	LOAD (VA)	PWR. FAC.	CURRENT (AMP)	EFFICIENCY PER CENT	CURRENT RATIO	D.C. POWER (WATT)

Figure 6.2-46. - Concluded

1A	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
1B	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
1C	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
A.C. INVERTER SET 1 HAS AN OVERALL EFFICIENCY OF .0000									
2A	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
2B	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
2C	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
A.C. INVERTER SET 2 HAS AN OVERALL EFFICIENCY OF .0000									
3A	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
3B	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
3C	.0000	.0000	.0000	345.0000	.0000	3.0000	.7650	*****	37.3300
A.C. INVERTER SET 3 HAS AN OVERALL EFFICIENCY OF .0000									

ACCUMULATED WATT-HRS OF SOURCES 1011265.35 AND LOADS 952293.88 949858.82

Figure 6.3-1.- Component time history

STS-1 NOMINAL ARF (03-03-80)

COMPONENT TIMELINE FROM PWR XFR INT TO 54.7500

ELECTRICAL COMPONENT TIMELINE, SHOWING COMPONENT ON/OFF TIMES
AND TIMES AT WHICH COMPONENTS CHANGE MODE OR USAGE FACTOR.NOTE: ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

SET (HHMMSS.T)	COMPONENT NUMBER	COMPONENT NAME	CONDITION	LOAD POWER (WATTS)	SEPS LOAD NO	COOL CODE
-000:10:00.0	010101	IMU =1 OPERATE	ON	116.49	28	WC
	010102	IMU =2 OPERATE	ON	116.49	29	WC
	010103	IMU =3 OPERATE	ON	116.46	30	WC
	010401	ADTA =1	ON	64.00	16	A1
	010402	ADTA =2	ON	64.00	17	A2
	010403	ADTA =3	ON	64.00	18	A1
	010404	ADTA =4	ON	64.00	18	A2
	010801	ATVC =1 PWR SUP-OPER	ON	38.90	66	F4
	010802	ATVC =2 PWR SUP-OPER	ON	38.90	67	F5
	010803	ATVC =3 PWR SUP-OPER	ON	38.90	68	F6
	010804	ATVC =4 PWR SUP-OPER	ON	38.90	80	F6
	010811	ATVC =1-ISO VLV DRVR	ON	.65	65	F4
	010812	ATVC =2-ISO VLV DRVR	ON	.66	63	F5
	010813	ATVC =3-ISO VLV DRVR	ON	.66	64	F6
	010814	ATVC =4-ISO VLV DRVR	ON	.66	76	F6
	010821	ATVC =1 ACTS-OPER	ON	3.30	66	OT
	010822	ATVC =2 ACTS-OPER	ON	3.30	67	OT
	010823	ATVC =3 ACTS-OPER	ON	3.30	68	OT
	010824	ATVC =4 ACTS-OPER	ON	3.30	80	OT
	010901	ASA1 PWR SUP LOG-OPR	ON	51.50	66	F4
	010902	ASA2 PWR SUP LOG-OPR	ON	51.50	67	F5
	010903	ASA3 PWR SUP LOG-OPR	ON	51.50	68	F6
	010904	ASA4 PWR SUP LOG-OPR	ON	51.50	80	F6
	011001	ASA =1 IVD/BF-OPER	ON	.40	68	F4
	011002	ASA =2 IVD/BF-OPER	ON	.40	66	F5
	011003	ASA =3 IVD/BF-OPER	ON	.40	67	F6
	011004	ASA =4 IVD-OPER	ON	.40	76	F6
	011011	ASA 1 ACTUATORS-OPER	ON	13.50	66	OT
	011012	ASA 2 ACTUATORS-OPER	ON	13.48	67	OT
	011013	ASA 3 ACTUATORS-OPER	ON	13.50	68	OT
	011014	ASA 4 ACTUATORS-OPER	ON	13.45	80	OT
	011101	RJDF =1A PRI RCS	ON	10.60	23	W1
	011102	RJDF =1B PRI RCS	ON	10.60	22	W1
	011103	RJDF =2A PRI RCS	ON	10.60	24	W2
	011104	RJDF =2B PRI/VN RCS	ON	10.60	24	W2
	011201	RJDA =1A PRI RCS	ON	13.20	80	F4
	011202	RJDA =1B PRI/VN RCS	ON	15.60	78	F4
	011203	RJDA =2A PRI RCS	ON	13.20	80	F6
	011204	RJDA =2B PRI/VN RCS	ON	15.60	79	F6
	011301	RGA =1 OPR	ON	22.77	78	FA

436

Figure 6.3-1. - Continued

011302	RGA =2 OPR	ON	23.13	64	FA
011303	RGA =3 OPR	ON	24.13	49	FA
011304	RGA =4 OPR	ON	23.84	46	FA
011401	ACCEL ASSY =1 - OPER	ON	2.40	16	A1
011402	ACCEL ASSY =2 - OPER	ON	2.40	17	A2
011403	ACCEL ASSY =3 - OPER	ON	2.40	30	A2
011404	ACCEL ASSY =4 - OPER	ON	2.40	29	A1
011701	RHC-LH	ON	2.84	19	AC
011702	RHC-RH	ON	4.30	19	AC
011801	RPTA-LH	ON	4.36	20	AC
011802	RPTA-RH	ON	1.10	19	AC
011901	SBTC-LH	ON	1.11	20	AC
011902	SBTC-RH	ON	1.46	19	AC
020802	NTWK SIG PROCESSOR 2	ON	1.46	20	AC
021101	S-BAND FM XMITR =1	ON	25.19	34	W3
021200	S-BND FM SIC PRO-ORB	ON	62.26	33	W3
021302	S-BND XPMODE=2-DIRECT	ON	4.45	36	A3
021401	S-BND PWR AMP 1-SBY	ON	52.44	34	W3
021402	S-BND PWR AMP 2-OPR	ON	18.52	23	W3
021501	S-BD PREAMP 1-SBY	ON	382.39	24	W3
021502	S-BD PREAMP 2-OPR	ON	11.44	33	W3
021600	S-BND ANT SW ASY-QES	ON	16.80	34	W3
021701	TACAN =1 SEARCH	ON	.49	33	A3
021702	TACAN =2 SEARCH	ON	211.13	213	A1
021703	TACAN =3 SEARCH	ON	209.15	216	A2
022101	RADAR ALTIMETER =1	ON	212.63	219	A3
022102	RADAR ALTIMETER =2	ON	21.28	16	W1
022201	UHF XCVR-XMT/REC	ON	21.41	17	W2
024101	AUDIO CENTER 1	ON	51.81	10	AC
024201	AUDIO TERM UN-PLT RT	ON	35.45	42	W1
024202	AUDIO TERM UN-CDR LT	ON	3.10	42	AC
024203	AUDIO TERM UNIT-HSS	ON	3.11	41	AC
024204	AUDIO TERM UNIT-PS	ON	3.13	10	AC
024910	MULTIPLE HDSET ADPTR	ON	3.33	15	AC
030101	ADI =1 FWD LH	ON	6.62	41	AC
030102	ADI =2 FWD RH	ON	15.65	19	AC
030201	HSI =1	ON	15.86	20	AC
030202	HSI =2	ON	24.70	16	AC
030301	AMI =1	ON	24.85	17	AC
030302	AMI =2	ON	6.48	16	AC
030401	ALPHA MACH FL UNIT 1	ON	6.51	17	AC
030402	ALPHA MACH FL UNIT 2	ON	29.05	16	HX
030501	AVVI =1	ON	29.22	17	HX
030502	AVVI =2	ON	6.48	16	AC
030601	ALT VER VEL EL UN =1	ON	6.51	17	AC
030602	ALT VER VEL EL UN =2	ON	22.76	16	HX
030701	TAPE MTR M1 (MPS PR)	ON	22.89	17	HX
030702	TAPE MTR M2 (MPS PR)	ON	8.33	16	AC
030703	TAPE MTR M3 (MPS PR)	ON	5.55	16	AC
030705	TAPE MTR M1 (HYD PR)	ON	11.10	16	AC
030706	TAPE MTR M2 (HYD QTY)	ON	8.38	17	AC
030707	TAPE MTR M3 (APU)	ON	8.38	17	AC
030708	TAPE MTR M4 (APU OIL)	ON	5.58	17	AC
031300	SPI	ON	17.40	16	AC
031400	ONS/RES PROP QTY IND	ON	4.73	18	AC
031501	C+W PWR SUP A-STBY	ON	19.05	41	A3

Figure 6.3-1. - Continued

031502	C+W PWR SUP B-STBY	ON	12.05	42	A3
031701	MISSION TIMER =1 FWD	ON	3.24	16	AC
031702	MISSION TIMER =2 AFT	ON	3.35	17	AC
031801	EVENT TIMER =1 FWD	ON	2.79	17	AC
031802	EVENT TIMER =2 AFT	ON	2.78	16	AC
032201	DDU =1 FWD LH	ON	120.00	19	HX
032202	DDU =2 FWD RH	ON	120.00	20	HX
032701	CRT DU =1 - LF	ON	76.75	22	HX
032702	CRT DU =2 - RF	ON	76.80	23	HX
032703	CRT DU =3 - CF	ON	76.54	24	HX
032801	DEU =1	ON	202.00	22	HX
032802	DEU =2	ON	202.00	23	HX
032803	DEU =3	ON	202.00	24	HX
033101	PANEL LTS - LEFT/CTP	ON	259.11	211	AC
033102	PANEL LTS - LFT/OVHD	ON	234.11	212	AC
033103	PANEL LIGHTS - RIGHT	ON	173.86	213	AC
033107	PANEL LTS - RHT/OVHD	ON	172.55	214	AC
033201	INSTR LTS - LEFT/CTR	ON	76.10	216	AC
033202	INSTR LTS - OVERHEAD	ON	33.95	215	AC
033203	INSTR LTS - RIGHT	ON	66.04	211	AC
033301	NUMERIC LIGHTS-FWD	ON	23.15	212	AC
034202	GLARSHLD FLDLT-LEFT	ON	29.34	41	AC
034203	GLARSHLD FLDLT-PGHT	ON	29.25	42	AC
034204	LFT OVERHEAD FLDLT A	ON	20.94	17	AC
034205	RHT OVERHEAD FLDLT A	ON	21.20	18	AC
034206	CONSOLE FLDLT-CMD(L)	ON	15.26	16	AC
034207	CONSOLE FLDLT-PLT	ON	15.36	17	AC
035600	C+W ANNUN ASSY-OPR	ON	7.11	41	AC
037200	CICU - OPEP	ON	6.22	43	A1
037301	ACA =1	ON	30.53	16	AC
037302	ACA =2/3	ON	62.01	17	AC
037303	ACA =4/5	ON	51.36	18	AC
037401	ANNUN 1	ON	11.49	16	AC
037402	ANNUN 2/3	ON	21.50	17	AC
037403	ANNUN 4/5	ON	18.21	18	AC
040301	PEM MASTER UNIT =1	ON	55.80	30	W1
040401	OPS-1 RECORDER-REPLY	ON	46.43	28	W2
040402	OPS-2 RECORDER-REPLY	ON	46.42	29	W2
040501	DED SIG CND OF1- FWD	ON	22.80	19	W1
040502	DED SIG CND OF2- FWD	ON	32.66	20	W2
040503	DED SIG CND OF3- FWD	ON	26.80	20	W3
040601	DED SIG CND OA1- AFT	ON	36.20	66	F4
040602	DED SIG CND OA2- AFT	ON	29.10	67	F5
040603	DED SIG CND OA3- AFT	ON	29.10	68	F6
040900	MTU - OPR	ON	27.46	43	W4
041201	DSC OL1 OMS/RCS	ON	23.30	78	OT
041202	DSC OL2 OMS/RCS	ON	21.40	80	OT
041203	DSC OR1 OMS/RCS	ON	23.36	78	OT
041204	DSC OR2 OMS/RCS	ON	21.40	79	OT
041301	DSC OM1 MID FUS	ON	13.90	19	OT
041302	DSC OM2 MID FUS	ON	22.10	19	OT
041400	DSC OF4 FWD-RCS	ON	26.90	19	OT
041601	WDBND S/C =1 (RAY4)	ON	.33	63	OT
041602	WDBND S/C =2 (RAY4)	ON	.33	63	OT
041603	WDBND S/C =3 (RAY4)	ON	.33	63	OT
041604	WDBND S/C =4 (RAY4)	ON	.33	63	OT
041701	WDBND S/C =1 (RAY5)	ON	.33	64	OT

Figure 6.3-1. - Continued

041702	WDBND S/C = 2 (RAYS)	ON	.33	64	01
050100	PWR DIST ASSY FWD	ON	9.47	12	01
050201	PWR DIST ASSY = 1 MID	ON	8.68	44	01
050202	PWR DIST ASSY = 2 MID	ON	8.68	44	02
050203	PWR DIST ASSY = 3 MID	ON	8.68	44	03
050301	PCM MASTER UNIT = 1	ON	55.00	24	01
050401	DSC FWD = 1-SDF1	ON	22.20	12	01
050402	DSC FWD = 2-SDF2	ON	22.20	12	01
050403	DSC FWD = 3-SDF3	ON	22.50	12	01
050501	DSC UNIT #1 - SDL1	ON	16.60	44	01
050502	DSC UNIT #2 - SDL2	ON	24.70	44	01
050503	DSC UNIT #3 - SDL3	ON	16.60	44	01
050504	DSC UNIT #4 - SDL4	ON	24.70	44	01
050505	DSC UNIT #5 - SDL5	ON	46.70	44	01
050506	DSC UNIT #1 - SDR1	ON	16.60	44	02
050507	DSC UNIT #2 - SDR2	ON	24.70	44	02
050508	DSC UNIT #3 - SDR3	ON	16.60	44	02
050509	DSC UNIT #4 - SDR4	ON	46.60	44	02
050601	DSC UNIT #1 - SDC1	ON	16.60	44	03
050602	DSC UNIT #2 - SDC2	ON	23.90	44	03
050603	DSC UNIT #3 - SDC3	ON	16.60	44	03
050604	DSC UNIT #4 - SDC4	ON	17.70	44	03
050605	DSC UNIT #5 - SDC5	ON	16.60	44	03
050701	WB FDM 1A (FMF1)-FWD	ON	23.68	12	01
050702	WB FDM 1B (FMF1)-FWD	ON	23.68	12	01
050703	WB FDM 2A (FMF2)-FWD	ON	23.68	12	01
050704	WB FDM 2B (FMF2)-FWD	ON	23.68	12	01
050705	WB FDM 3A (FMF3)-FWD	ON	23.68	12	01
050706	WB FDM 3B (FMF3)-FWD	ON	23.68	12	01
050801	WDBND FDM UN1-MID L1	ON	21.71	47	01
050802	WDBND FDM UN1-MID L1	ON	22.50	48	01
050803	WDBND FDM UN2-MID L1	ON	21.71	47	01
050804	WDBND FDM UN2-MID L1	ON	22.50	48	01
050805	WDBND FDM UN1-MID R2	ON	21.71	47	02
050806	WDBND FDM UN1-MID R2	ON	22.50	48	02
050807	WDBND FDM UN2-MID R2	ON	21.71	47	02
050808	WDBND FDM UN2-MID R2	ON	22.50	48	02
050811	WDBND FDM UN1-MID L3	ON	21.71	47	03
050812	WDBND FDM UN1-MID L3	ON	21.71	47	03
050813	WDBND FDM UN2-MID L3	ON	21.71	47	03
050820	FREON FLOMTD-MTD LT3	ON	1.74	47	03
050831	LOAD SEN ACCEL-1 FWD	ON	3.31	12	01
050832	LOAD SEN ACCEL-2 FWD	ON	3.31	12	01
050833	LOAD SEN ACCEL-MR 2	ON	12.16	47	02
050834	LOAD SEN ACCEL-MR 3	ON	9.45	48	02
050901	WDBND RCDR(ASC)-RECD	ON	16.10	12	01
050930	PCM RCDR-RECD-SERIAL	ON	16.10	12	01
051011	WBSC FWD (A131)-1004	ON	2.65	12	01
051012	WBSC FWD (A131)-ASCT	ON	4.64	12	01
051020	WBSC FWD (A132)-WBM	ON	5.30	12	01
051031	WBSC FWD (A133)-ASCT	ON	.36	12	01
051032	WBSC FWD (A133)-WBM	ON	7.29	12	01
051041	WBSC FWD (A134)-WBM	ON	9.00	12	01
051111	WBSC LM1 (A135)-WBM	ON	2.52	48	01
051112	WBSC LM1 (A135)-WBM	ON	3.04	47	01
051121	WBSC LM1 (A136)-WBM	ON	3.15	48	01
051122	WBSC LM1 (A136)-WBM	ON	3.39	47	01

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Figure 6.3-1. - Continued

051131	WBSC	LM1	(A137)-WBM	ON	4.77	48	01
051132	WBSC	LM1	(A137)-WBM	ON	3.99	47	01
051141	WBSC	LM1	(A138)-WBM	ON	3.51	48	01
051142	WBSC	LM1	(A138)-WBM	ON	4.58	47	01
051211	WBSC	RM2	(A139)-WBM	ON	2.52	48	02
051212	WBSC	RM2	(A139)-WBM	ON	2.78	47	02
051221	WBSC	RM2	(A140)-WBM	ON	2.88	48	02
051222	WBSC	RM2	(A141)-WBM	ON	2.43	47	02
051231	WBSC	RM2	(A141)-WBM	ON	4.41	48	02
051232	WBSC	RM2	(A141)-WBM	ON	3.99	47	02
051241	WBSC	RM2	(A142)-WBM	ON	2.88	48	02
051242	WBSC	RM2	(A142)-WBM	ON	4.86	47	02
051311	WBSC	LM3	(A143)-ASCT	ON	7.64	47	03
051321	WBSC	LM3	(A144)-ASCT	ON	2.17	47	03
051322	WBSC	LM3	(A144)-WBM	ON	6.38	47	03
051331	WBSC	LM3	(A145)-ASCT	ON	3.39	47	03
051332	WBSC	LM3	(A145)-100%	ON	2.43	47	03
051333	WBSC	LM3	(A145)-100%	ON	2.88	48	03
051340	WBSC	LM3	(A146)-ASCT	ON	8.51	47	03
051401	DC-DC	XDUCERS	FWD	ON	14.97	47	01
051402	DC-DC	XDUCERS	FWD	ON	5.11	12	01
051403	DC-DC	XDUCERS	FWD	ON	5.38	47	01
051404	DC-DC	XDUCERS	MID L1	ON	26.57	47	01
051405	DC-DC	XDUCERS	MID L1	ON	7.12	47	01
051406	DC-DC	XDUCERS	MID L1	ON	4.86	48	01
051407	DC-DC	XDUCERS	MID R2	ON	25.01	47	01
051408	DC-DC	XDUCERS	MID R2	ON	1.74	47	01
051409	DC-DC	XDUCERS	MID R2	ON	3.24	48	01
051411	DC-DC	XDUCERS	MID L3	ON	.69	47	01
051412	DC-DC	XDUCERS	MID L3	ON	34.38	47	01
051501	SGSC	FWD	(A161)-100%	ON	21.88	12	DW
051502	SGSC	FWD	(A161)-100%	ON	15.53	12	DW
051503	SGSC	FWD	(A161)-WBM	ON	5.21	12	DW
051504	SGSC	FWD	(A161)-WBM	ON	14.58	12	DW
051611	SGSC	ML1	(A162)-100%	ON	80.57	47	01
051612	SGSC	ML1	(A162)-WBM	ON	13.37	47	01
051613	SGSC	ML1	(A162)-WBM	ON	13.86	48	01
051621	SGSC	ML1	(A163)-100%	ON	56.87	47	01
051622	SGSC	ML1	(A163)-WBM	ON	27.72	48	01
051623	SGSC	ML1	(A163)-WBM	ON	6.69	47	01
051624	SGSC	ML1	(A163)-100%	ON	6.93	48	01
051625	SGSC	ML1	(A163)-100%	ON	26.74	47	01
051631	SGSC	MR2	(A164)-100%	ON	103.13	48	02
051632	SGSC	MR2	(A164)-100%	ON	20.79	48	02
051641	SGSC	MR2	(A165)-100%	ON	93.32	48	02
051642	SGSC	MR2	(A165)-100%	ON	34.65	48	02
051651	SGSC	MR2	(A169)-100%	ON	63.89	48	02
051652	SGSC	MR2	(A169)-WBM	ON	27.72	48	02
051653	SGSC	MR2	(A169)-WBM	ON	20.06	47	02
051654	SGSC	MR2	(A169)-100%	ON	27.72	48	02
051661	SGSC	ML3	(A166)-100%	ON	68.75	48	03
051662	SGSC	ML3	(A166)-WBM	ON	26.74	47	03
051671	SGSC	ML3	(A167)-100%	ON	53.99	48	03
051672	SGSC	ML3	(A167)-WBM	ON	40.11	47	03
051673	SGSC	ML3	(A167)-100%	ON	20.79	48	03
051700	WBM	DF1	FWD	ON	53.98	12	DW
051801	MDM	DL1	MID LEFT 1	ON	50.00	44	01

Figure 6.3-1. - Continued

0518002	MDM DL2 - MID LEFT 1	ON	50.20	44	D1
0518003	MDM DR1 - MID RIGHT 2	ON	50.00	44	D2
0518004	MDM DR2 - MID RIGHT 2	ON	52.80	44	D2
0518005	MDM DC1 - MID LEFT 3	ON	48.10	44	D3
0518006	MDM DC2 - MID LEFT 3	ON	52.50	44	D3
0519000	S-BAND FM XMITR-DFI	ON	113.65	12	DW
0522000	ARS DFI SIGNAL COND	ON	8.10	215	OT
0523000	ATCS DFI SIGNAL COND	ON	1.97	217	OT
0524001	DFI FREON PUMP #1	ON	309.78	201	D1
0525000	3-AXIS ACCEL	ON	1.61	12	OT
0537000	ACIP PACKAGE	ON	96.25	49	OT
0538000	ACIP PCM MASTER	ON	18.16	49	OT
0539000	ACIP PCM SLAVE	ON	10.90	49	OT
0540000	ACIP MINI DHE	ON	18.16	49	OT
0540010	INTF CNTL MOD-ACIP	ON	3.45	49	AC
0541001	DATA CAMERA 1 HEATER	ON	63.00	72	OT
0541002	DATA CAMERA 2 HEATER	ON	63.00	72	OT
0541003	SURVEILLANCE CAM HTR	ON	63.00	72	OT
0551000	PCM MULTIPLEXER	ON	27.13	76	OT
0552000	FM MULTIPLEXER	ON	28.44	76	OT
0552100	FM MULTIPLEXER	ON	10.44	76	OT
0553000	CHARGE AMPLIFIER	ON	9.37	76	OT
0554000	LEVEL SENSOR ELECT	ON	38.14	76	OT
0555000	PRESSURE MEASUREMENT	ON	6.99	76	OT
0603001	MEC=1-AVERAGE	ON	84.00	78	F4
0603002	MEC=2-AVERAGE	ON	84.00	79	F5
0609001	GRND CMOS INTFC UN A	ON	24.68	33	W3
0610001	INV DIST+CTL ASY1-DC	ON	.53	41	A1
0610002	INV DIST+CTL ASY1-AC	ON	2.78	201	A1
0610003	INV DIST+CTL ASY2-DC	ON	.53	42	A2
0610004	INV DIST+CTL ASY2-AC	ON	2.75	202	A2
0610005	INV DIST+CTL ASY3-DC	ON	.53	43	A3
0610006	INV DIST+CTL ASY3-AC	ON	2.77	203	A3
0617001	CURR SENSOR-MIDBDY=1	ON	3.04	7	OT
0617002	CURR SENSOR-MIDBDY=2	ON	3.12	8	OT
0617003	CURR SENSOR-MIDBDY=3	ON	3.13	9	OT
0617004	CURR SENSOR-PL MN B	ON	.91	64	OT
0617005	CURR SENSOR-PL MN C	ON	.90	65	OT
0617006	CURR SENSOR-LH ADP	ON	.94	22	OT
0617007	CURR SENSOR-LH ADP	ON	.94	23	OT
0617008	CURR SENSOR-RH ADP	ON	.94	23	OT
0617009	CURR SENSOR-RH ADP	ON	.94	23	OT
0618001	H202 CRYO ASY1A-QUES	ON	10.56	7	FM
0618002	H202 CRYO ASY1B-QUES	ON	10.88	9	FM
0618011	H202 CRYO ASY2A-QUES	ON	10.82	8	FM
0618012	H202 CRYO ASY2B-QUES	ON	10.88	9	FM
0620001	PROX SNSR EL PKG =1	ON	10.51	217	A1
0620002	PROX SNSR EL PKG =2	ON	10.46	214	A2
0621001	MTR CNTL ASSY FWD =1	ON	3.45	22	W1
0621002	MTR CNTL ASSY FWD =2	ON	3.20	23	W2
0621003	MTR CNTL ASSY FWD =3	ON	4.34	24	W3
0622001	MTR CNTL ASSY MID =1	ON	10.68	44	FM
0622002	MTR CNTL ASSY MID =2	ON	11.23	45	FM
0622003	MTR CNTL ASSY MID =3	ON	9.29	44	FM
0622004	MTR CNTL ASSY MID =4	ON	11.10	45	FM
0623001	MTR CNTL ASSY AFT =1	ON	7.43	63	F4
0623002	MTR CNTL ASSY AFT =2	ON	6.99	64	F5

Figure 6.3-1. - Continued

062303	MTR CNTL ASSY AFT =3	ON	12.52	65	F6
062401	LOAD CNTL ASSY FWD1	ON	16.88	32	W1
062402	LOAD CNTL ASSY FWD2	ON	22.59	33	W2
062403	LOAD CNTL ASSY FWD3	ON	27.99	34	W3
062501	LOAD CNTL ASSY AFT1	ON	95.74	84	F4
062502	LOAD CNTL ASSY AFT2	ON	92.46	85	F5
062503	LOAD CNTL ASSY AFT3	ON	97.45	86	F6
062601	PCA FWD =1	ON	60.42	22	W1
062602	PCA FWD =2	ON	63.08	23	W2
062603	PCA FWD =3	ON	43.22	24	W3
062701	PCA MID =1	ON	41.22	47	FM
062702	PCA MID =2	ON	32.75	48	FM
062703	PCA MID =3	ON	27.85	49	FM
062801	PCA AFT =1	ON	45.72	72	F4
062802	PCA AFT =2	ON	32.69	73	F5
062803	PCA AFT =3	ON	20.95	74	F6
062804	PCA AFT =4	ON	31.47	60	F4
062805	PCA AFT =5	ON	54.56	61	F5
062806	PCA AFT =6	ON	37.73	62	F6
070101	GPC CPU#1-RUN	ON	313.00	31	A1
070102	GPC CPU#2-RUN	ON	313.00	31	A2
070103	GPC CPU#3-RUN	ON	313.00	31	A3
070104	GPC CPU#4-RUN	ON	313.00	31	A1
070105	GPC CPU#5-RUN	ON	313.00	31	A2
070201	GPC IOP#1-RUN	ON	340.00	31	A1
070202	GPC IOP#2-RUN	ON	340.00	31	A2
070203	GPC IOP#3-RUN	ON	340.00	31	A3
070204	GPC IOP#4-RUN	ON	340.00	31	A1
070205	GPC IOP#5-RUN	ON	340.00	31	A2
070301	MDM FF1	ON	58.90	28	W1
070302	MDM FF2	ON	60.00	29	W2
070303	MDM FF3	ON	55.50	30	W3
070304	MDM FF4	ON	58.60	29	W2
070401	MDM FA1	ON	54.80	66	F4
070402	MDM FA2	ON	54.20	67	F5
070403	MDM FA3	ON	55.60	68	F6
070404	MDM FA4	ON	56.20	68	F6
070901	MM =1 TAPE OPER	ON	17.06	22	W1
070902	MM =2 TAPE OPER	ON	17.07	23	W2
071001	MDM OFI 1	ON	46.80	19	W1
071002	MDM OFI 2	ON	46.80	19	W2
071003	MDM OFI 3	ON	47.40	21	W3
071004	MDM OFI 4 FLT DECK	ON	40.40	21	WC
071101	MDM OAI 1	ON	41.30	56	F4
071102	MDM OAI 2	ON	42.10	67	F5
071103	MDM OAI 3	ON	42.70	68	F6
071401	MDM PL 1	ON	54.40	28	W1
071402	MDM PL 2	ON	56.90	29	W2
071501	ENG INTRFC UN =1	ON	49.30	66	F4
071502	ENG INTRFC UN =2	ON	49.30	67	F5
071503	ENG INTRFC UN =3	ON	49.30	68	F6
071602	DBIA#1 SRB-HI RATE	ON	12.20	78	F4
071604	DBIA#2 SRB-HI RATE	ON	12.20	78	F5
075001	GPC CNTLR 1 PS A	ON	6.03	31	A1
075002	GPC CNTLR 1 PS B	ON	6.03	31	A1
075003	GPC CNTLR 2 PS A	ON	6.03	31	A2
075004	GPC CNTLR 2 PS B	ON	6.03	31	A2

Figure 6.3-1. - Continued

075005	GPC	CNTLR	3	PS	A	ON	6.03	31	A2
075006	GPC	CNTLR	3	PS	B	ON	1.16	31	A2
160101	MDM	=1	LH	SRB		ON	52.00	91	OT
160102	MDM	=1	LH	SRB		ON	52.00	91	OT
160103	MDM	=1	RH	SRB		ON	52.00	94	OT
160104	MDM	=2	RH	SRB		ON	52.00	94	OT
160301	RGA	=1	LH	SRB	(RUN)	ON	15.95	102	OT
160302	RGA	=2	LH	SRB	(RUN)	ON	15.94	103	OT
160303	RGA	=3	LH	SRB	(RUN)	ON	15.71	96	OT
160304	RGA	=1	RH	SRB	(RUN)	ON	15.94	104	OT
160305	RGA	=2	RH	SRB	(RUN)	ON	15.94	105	OT
160306	RGA	=3	RH	SRB	(RUN)	ON	15.71	97	OT
160501	SIG	COND	=1	LH	SRB	ON	11.46	91	OT
160502	SIG	COND	=2	LH	SRB	ON	11.46	91	OT
160503	SIG	COND	=1	RH	SRB	ON	11.45	94	OT
160504	SIG	COND	=2	RH	SRB	ON	11.45	94	OT
161201	CMBR	PR	XDCR	=A	LHSRB	ON	.87	90	OT
161202	CMBR	PR	XDCR	=B	LHSRB	ON	.86	92	OT
161203	CMBR	PR	XDCR	=C	LHSRB	ON	.77	96	OT
161204	CMBR	PR	XDCR	=A	RHSRB	ON	.86	93	OT
161205	CMBR	PR	XDCR	=B	RHSRB	ON	.86	95	OT
161206	CMBR	PR	XDCR	=C	RHSRB	ON	.77	97	OT
161801	APU	CNTL	ASY	A	-LSRB	ON	9.46	102	OT
161802	APU	CNTL	ASY	B	-LSRB	ON	9.45	103	OT
161803	APU	CNTL	ASY	A	-RSRB	ON	9.45	104	OT
161804	APU	CNTL	ASY	B	-RSRB	ON	9.45	105	OT
162501	HPU	A	GG	HTR	1-LHSRB	ON	43.98	102	OT
162502	HPU	B	GG	HTR	1-LHSRB	ON	43.94	103	OT
162503	HPU	A	GG	HTR	1-RHSRB	ON	43.95	104	OT
162504	HPU	B	GG	HTR	1-RHSRB	ON	43.94	105	OT
200101	MN	ENG	CNTLR	1	CH A	ON	476.59	201	OT
200102	MN	ENG	CNTLR	1	CH B	ON	372.71	202	OT
200103	MN	ENG	CNTLR	2	CH A	ON	470.53	202	OT
200104	MN	ENG	CNTLR	2	CH B	ON	376.43	203	OT
200105	MN	ENG	CNTLR	3	CH A	ON	475.29	203	OT
200106	MN	ENG	CNTLR	3	CH B	ON	377.46	201	OT
200301	LOX	PREVLV	1	OP	SOL	ON	29.10	69	OT
200303	LOX	PREVLV	2	OP	SOL	ON	29.13	70	OT
200305	LOX	PREVLV	3	OP	SOL	ON	29.10	71	OT
200402	LH2	PREVLV	1	CL	SOL	ON	29.10	69	OT
200404	LH2	PREVLV	2	CL	SOL	ON	29.13	70	OT
200406	LH2	PREVLV	3	CL	SOL	ON	29.10	71	OT
200502	LO2	OB	F+D	VL	OP SOL	ON	30.65	86	OT
200602	LO2	IB	F+D	VL	OP SOL	ON	30.89	85	OT
200702	LH2	OB	F+D	VL	OP SOL	ON	30.89	85	OT
200801	LH2	IB	F+D	VL	CL SOL	ON	30.90	84	OT
200810	LH2	HI	PT	BLD	VALVE	ON	30.90	84	OT
200903	LH2	TOP	VLV	OP	SOL	ON	30.96	84	OT
201101	LO2	FD	DSC	VL	OP SOL	ON	31.12	79	OT
201201	LH2	FD	DSC	VL	OP SOL	ON	31.12	79	OT
201301	LH2	RC	DSC	VL	OP SOL	ON	30.65	86	OT
201403	LO2	REL	F	S/V	CL SOL	ON	34.65	46	OT
201500	LH2	REL	F	S/V	CL SOL	ON	34.65	46	OT
202101	ENG	1	HE	SPY	ISO VLA	ON	30.90	84	OT
202102	ENG	1	HE	SPY	ISO VLB	ON	31.08	67	OT
202103	ENG	2	HE	SPY	ISO VLA	ON	30.89	85	OT
202104	ENG	2	HE	SPY	ISO VLB	ON	31.12	68	OT

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Figure 6.3-1. - Continued

202105	ENG 3 HE SPY ISO VLA	ON	30.65	86	OT
202106	ENG 3 HE SPY ISO VL	ON	31.13	66	OT
202201	PNEU HE SPY ISO VL 1	ON	30.90	84	OT
202202	PNEU HE SPY ISO VL 2	ON	30.89	85	OT
202701	ULL PRES SIG COND =1	ON	9.37	84	F4
202702	ULL PRES SIG COND =2	ON	8.93	82	F5
202703	ULL PRES SIG COND =3	ON	8.87	83	F6
202801	POINT SNSR ELEC-BUS1	ON	23.88	84	OT
202802	POINT SNSR ELEC-BUS2	ON	23.88	85	OT
202803	POINT SNSR ELEC-BUS3	ON	24.05	79	OT
202804	POINT SNSR ELEC-BUS4	ON	23.69	86	OT
203201	LO2 POGO ACC VL 1 CL	ON	30.90	84	OT
203202	LO2 POGO ACC VL 2 CL	ON	30.89	85	OT
203701	ENG 1 FASCOS SYS A	ON	18.99	63	OT
203702	ENG 1 FASCOS SYS B	ON	18.93	64	OT
203703	ENG 1 FASCOS SYS C	ON	18.83	65	OT
203704	ENG 2 FASCOS SYS A	ON	18.99	63	OT
203705	ENG 2 FASCOS SYS B	ON	18.93	64	OT
203706	ENG 2 FASCOS SYS C	ON	18.83	65	OT
203707	ENG 3 FASCOS SYS A	ON	18.99	63	OT
203708	ENG 3 FASCOS SYS B	ON	18.93	64	OT
203709	ENG 3 FASCOS SYS C	ON	18.83	65	OT
210701	LP ACT GMBL INST/LOG	ON	5.77	72	OT
210702	LP STB GMBL INST/LOG	ON	5.85	73	OT
210703	RP ACT GMBL INST/LOG	ON	5.82	74	OT
210704	RP STB GMBL INST/LOG	ON	5.77	72	OT
211501	BIPROP VL1 LP POS ID	ON	1.15	72	OT
211502	BIPROP VL2 LP POS ID	ON	1.17	73	OT
211503	PIPROP VL1 RP POS ID	ON	1.15	72	OT
211504	PIPROP VL2 RP POS ID	ON	1.16	74	OT
212106	TK ISO/XFD VL TLKBC	ON	.25	72	AC
212401	QUAN GAGE TOT-LP-OPR	ON	7.53	78	OT
212402	QUAN GAGE TOT-RP-OPR	ON	7.52	80	OT
217001	XFD OX/FU FLXL HTA-L	ON	28.40	72	OT
217003	XFD OX/FU FLXL HTA-R	ON	28.40	72	OT
217101	XFD OX/FU LNE HT-A-L	ON	37.14	72	OT
217103	XFD OX/FU LNE HT-A-R	ON	37.14	72	OT
217105	XFD OX/FU LNE HT-A-C	ON	72.24	72	OT
217201	FU HIPT BLDLN HT-A-A	ON	12.08	72	OT
217301	OX HIPT BLDLN HT-A-A	ON	12.06	72	OT
217401	LOPT OXFU DPLN HTA-L	ON	7.90	72	OT
217403	LOPT OXFU DPLN HTA-R	ON	7.90	72	OT
300201	FCP =1 O2 FLOWMETER	ON	5.38	47	OT
300202	FCP =2 O2 FLOWMETER	ON	5.67	48	OT
300203	FCP =3 O2 FLOWMETER	ON	5.72	49	OT
300301	FCP =1 H2 FLOWMETER	ON	5.38	47	OT
300302	FCP =2 H2 FLOWMETER	ON	5.67	48	OT
300303	FCP =3 H2 FLOWMETER	ON	5.72	49	OT
300401	FCP1 EL CTL-ORBT	ON	4.29	38	OT
300402	FCP2 EL CTL-ORBT	ON	4.27	39	OT
300403	FCP3 EL CTL-ORBT	ON	4.21	40	OT
300501	FCP1 PHP+H2O SENSOR	ON	238.96	201	OT
300502	FCP2 PHP+H2O SENSOR	ON	236.34	202	OT
300503	FCP3 PHP+H2O SENSOR	ON	242.26	203	OT
310301	O2 TNK1 SIG COND QTY	ON	2.04	42	OT
310302	H2 TNK1 SIG COND QTY	ON	2.04	42	OT
310303	O2 TNK2 SIG COND QTY	ON	2.04	41	OT

Figure 6.3-1. - Continued

310304	H2 THR2 SIG COND QTY	ON	2.22	41	OT
320301	APU1 CNTRLR-OPERATE	ON	5.56	66	F4
320302	APU2 CNTRLR-OPERATE	ON	5.55	67	F5
320303	APU3 CNTRLR-OPERATE	ON	5.56	68	F6
325202	FUEL FEEDLINE HTR 1B	ON	30.46	85	OT
325204	FUEL FEEDLINE HTR 2B	ON	36.45	86	OT
325206	FUEL FEEDLINE HTR 3B	ON	21.46	84	OT
325302	FUEL SERVLIN HTR 1B	ON	32.25	85	OT
325304	FUEL SERVLIN HTR 2B	ON	23.85	86	OT
325306	FUEL SERVLIN HTR 3B	ON	32.25	84	OT
325501	FUEL PMP/LINE HTR 1A	ON	18.18	84	OT
325503	FUEL PMP/LINE HTR 2A	ON	18.18	85	OT
325505	FUEL PMP/LINE HTR 3A	ON	18.18	86	OT
325601	TURB GAS GEN HTR 1A	ON	35.22	84	OT
325603	TURB GAS GEN HTR 2A	ON	34.65	85	OT
325605	TURB GAS GEN HTR 3A	ON	34.08	86	OT
325701	OIL LINE HTR 1A	ON	10.30	84	OT
325703	OIL LINE HTR 2A	ON	10.65	85	OT
325705	OIL LINE HTR 3A	ON	10.65	86	OT
325801	APU 1 PRI H2O HTR 1A	ON	16.98	75	OT
325803	APU 2 PRI H2O HTR 1A	ON	4.92	76	OT
325805	APU 3 PRI H2O HTR 1A	ON	16.06	77	OT
325901	APU 1 SEC H2O HTR 2A	ON	18.06	75	OT
325903	APU 2 SEC H2O HTR 2A	ON	8.22	76	OT
325905	APU 3 SEC H2O HTR 2A	ON	8.22	77	OT
326301	GG H2O TK LN HT 504A	ON	7.50	75	OT
326303	GG H2O TK LN HT 503A	ON	13.62	77	OT
400101	CABIN FAN A	ON	52.20	203	HA
400201	CAB AIR TEMP CNT PRI	ON	4.42	214	AC
400301	CAB AIR TMP CN EL-PR	ON	5.23	214	AC
400400	CAB AIR SIGNAL COND	ON	4.89	212	AC
400502	ARS HUMIDITY SEP B	ON	37.25	202	AC
400600	ARS HUM SEP SIG CND	ON	2.36	217	AC
400701	PPO2 CNTRLR-SYS 1	ON	4.65	16	AC
400702	PPO2 CNTRLR-SYS 2	ON	4.65	17	AC
400711	O2 CONTROL VLV-SYS 1	ON	4.35	16	AC
400712	O2 CONTROL VLV-SYS 2	ON	4.37	17	AC
400731	CABIN PRESS SENSOR	ON	0.65	16	AC
400732	CAB PRES DECAY SENSR	ON	1.86	17	AC
400751	O2 FLOW SENSOR-SYS 1	ON	0.93	16	AC
400752	O2 FLOW SENSOR-SYS 2	ON	0.93	17	AC
400753	N2 FLOW SENSOR-SYS 1	ON	0.93	16	AC
400754	N2 FLOW SENSOR-SYS 2	ON	0.93	17	AC
400761	PPO2 SENSOR-SYS 1	ON	0.74	16	AC
400762	PPO2 SENSOR-SYS 2	ON	0.74	17	AC
400763	PPO2 SENSOR-SYS 3	ON	0.74	17	AC
400802	AVION FAN-BAY 1 (B)	ON	219.61	202	A1
400803	AVION FAN-BAY 2 (A)	ON	213.07	202	A2
400806	AVION FAN-BAY 3 (B)	ON	222.41	201	A3
400901	AVION BAY 1 SIG COND	ON	3.16	218	AC
400902	AVION BAY 2 SIG COND	ON	2.38	212	AC
400903	AVION BAY 3 SIG COND	ON	3.27	215	AC
401001	SMOKE DT SNR-L FLT D	ON	6.01	16	OT
401002	SMOKE DT SNR-R FLT D	ON	6.01	16	OT
401003	S D SNSR A - BAY 1	ON	6.13	18	OT
401004	S D SNSR B - BAY 1	ON	6.05	17	OT
401005	S D SNSR A - BAY 2	ON	6.01	16	OT

Figure 6.3-1. - Continued

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401006	S D SNSR B - BAY 2	ON	6.13	18	OT	
401007	S D SNSR A - BAY 3	ON	6.05	17	OT	
401008	S D SNSR B - BAY 3	ON	6.01	16	OT	
401009	S D SNSR - CABIN	ON	6.13	18	OT	
401102	IMU FAN B	ON	63.53	202	WC	
401200	IMU FAN SIG COND	ON	2.37	218	AC	
401303	H2O PUMP - LOOP 2	ON	253.22	203	WC	
401501	H2O BYPASS CN SC-PRI	ON	7.75	217	AC	
401502	H2O BYPASS CN SC-SEC	ON	7.84	211	AC	
402901	FREON PMP LP 1-A ASC	ON	495.13	201	FP	
402903	FREON PMP LP 2-A ASC	ON	493.77	203	FP	
403601	FREON COOL LP1 INSTR	ON	6.54	215	OT	
403602	FREON COOL LP2 INSTR	ON	6.58	218	OT	
408501	HI LD DUCT HTR1 S-C1	ON	232.51	47	OT	
408601	HI LD DUCT HTR1 SEC2	ON	84.02	47	OT	
408701	HI LD DUCT NOZ HT GP1	ON	125.47	47	OT	
409001	TOP'G DUCT HTR1 SEC1	ON	344.80	47	OT	
409101	TOP'G DUCT HTR1 SEC2	ON	468.60	47	OT	
409201	TOP'G DUCT HTR1 SEC3	ON	62.80	84	OT	
409301	TOP'G DUCT HTR1 SEC4	ON	64.80	84	OT	
500400	LG RETRACT CIRC VLV	ON	14.92	28	OT	
500801	RESVOIR =1 VOL SNSR	ON	1.85	212	OT	
500802	RESVOIR =2 VOL SNSR	ON	1.83	215	OT	
500803	RESVOIR =3 VOL SNSR	ON	1.84	218	OT	
503701	H2O BLR1 CNT LOGIC A	ON	4.73	217	OT	
503703	H2O BLR2 CNT LOGIC A	ON	3.96	213	OT	
503705	H2O BLR3 CNT LOGIC A	ON	3.79	214	OT	
503801	H2O BOILP 1 CNTL A	ON	.65	65	OT	
503803	H2O BOILP 2 CNTL A	ON	.58	63	OT	
503805	H2O BOILP 3 CNTL A	ON	.66	64	OT	
505101	CIRC MOTOR PUMP =1	ON	1944.00	60	OT	
505102	CIRC MOTOR PUMP =2	ON	1944.06	61	OT	
505103	CIRC MOTOR PUMP =3	ON	1944.00	62	OT	
522701	BRK/SKID CNTL BOX A	ON	15.90	30	A1	
522702	BRK/SKID CNTL BOX B	ON	15.92	29	A2	
600301	ESCAPE SUIT VT ASY L	ON	88.02	11	AC	
600302	ESCAPE SUIT VT ASY R	ON	85.95	10	AC	
-- TOTAL SOURCE POWER IS NOW 33.93 KW --						
-000:09:00.0	200601	L02 IB F+D VL CL SOL	ON	30.89	85	OT
	200602	L02 IB F+D VL OP SOL	OFF	.00	85	OT
-- TOTAL SOURCE POWER IS NOW 33.89 KW --						
-000:06:00.0	500601	MN PMP =1 DEPRES VLV	ON	19.12	66	OT
	500602	MN PMP =2 DEPRES VLV	ON	19.08	67	OT
	500603	MN PMP =3 DEPRES VLV	ON	19.11	68	OT
-- TOTAL SOURCE POWER IS NOW 34.00 KW --						
000:05:30.0	040403	PAYLD RECORDER-REPLY	ON	46.36	30	W1
-- TOTAL SOURCE POWER IS NOW 34.05 KW --						
000:05:00.0	160701	IGN S+A DEV LH SRB	ON	62.34	102	OT
	160702	IGN S+A DEV RH SRB	ON	62.28	104	OT

Figure 6.3-1. - Continued

200101	MN ENG CNTLR 1 CH A	CHANGED TO	637.97	201	OT
200103	MN ENG CNTLR 2 CH A	CHANGED TO	628.02	202	OT
200105	MN ENG CNTLR 3 CH A	CHANGED TO	635.66	203	OT
320201	APU 1 FU ISO VLV 1	ON	26.73	63	OT
320202	APU 1 FU ISO VLV 2	ON	26.65	64	OT
320203	APU 2 FU ISO VLV 1	ON	26.65	64	OT
320204	APU 2 FU ISO VLV 2	ON	26.59	65	OT
320205	APU 3 FU ISO VLV 1	ON	26.59	65	OT
320206	APU 3 FU ISO VLV 2	ON	26.73	63	OT
320301	APU1 CNTLR-OPERATE	CHANGED TO	16.46	66	F4
320302	APU2 CNTLR-OPERATE	CHANGED TO	16.43	67	F5
320303	APU3 CNTLR-OPERATE	CHANGED TO	16.45	68	F6
320401	APU 1 SHUTOFF VLV	ON	29.23	66	OT
320402	APU 2 SHUTOFF VLV	ON	29.18	67	OT
320403	APU 3 SHUTOFF VLV	ON	29.22	58	OT
320501	APU 1 MODULATING VLV	ON	14.62	68	OT
320502	APU 2 MODULATING VLV	ON	14.59	67	OT
320503	APU 3 MODULATING VLV	ON	14.61	68	OT
325501	FUEL PMP/LINE HTR 1A	OFF	.00	84	OT
325503	FUEL PMP/LINE HTR 2A	OFF	.00	85	OT
325505	FUEL PMP/LINE HTR 3A	OFF	.00	86	OT
325601	TURB GAS GEN HTR 1A	OFF	.00	84	OT
325603	TURB GAS GEN HTR 2A	OFF	.00	85	OT
325605	TURB GAS GEN HTR 3A	OFF	.00	86	OT
500601	MN PMP =1 DEPRES VLV	OFF	.00	66	OT
500602	MN PMP =2 DEPRES VLV	OFF	.00	67	OT
500603	MN PMP =3 DEPRES VLV	OFF	.00	68	OT
501801	RUD/SPBK SW VL ACT 1	ON	1.18	213	OT
501802	RUD/SPDBX SW VL PS2	ON	1.18	216	OT
501901	ME 1 PITCH SW V ACTV	ON	1.18	216	OT
501902	ME 1 YAW SW V ACTV	ON	1.18	216	OT
501903	ME 2 PITCH SW V ACTV	ON	1.18	216	OT
501904	ME 2 YAW SW V ACTV	ON	1.18	216	OT
501905	ME 3 PITCH SW V ACTV	ON	1.18	216	OT
501906	ME 3 YAW SW V ACTV	ON	1.18	216	OT
502001	ELV ACT SW V ACT-LO	ON	1.18	213	OT
502002	ELV ACT SW V PS2-LO	ON	1.18	216	OT
502003	ELV ACT SW V ACT-LI	ON	1.18	213	OT
502004	ELV ACT SW V PS2-LI	ON	1.18	216	OT
502005	ELV ACT SW V ACT-RI	ON	1.18	213	OT
502006	ELV ACT SW V PS2-RI	ON	1.18	216	OT
502007	ELV ACT SW V ACT-RO	ON	1.18	213	OT
502008	ELV ACT SW V PS2-RO	ON	1.18	216	OT

-- TOTAL SOURCE POWER IS NOW 34.89 KW --

-000:04:59.5

160701

IGN S+A DEV LH SRB

OFF

.00

102

OT

160702

IGN S+A DEV RH SRB

OFF

.00

104

OT

-- TOTAL SOURCE POWER IS NOW 34.74 KW --

-000:04:56.9

500403

LG RETRACT CIRC VLV

OFF

.00

28

OT

505101

CIRC MOTOR PUMP =1

OFF

.00

60

OT

505102

CIRC MOTOR PUMP =2

OFF

.00

61

OT

505103

CIRC MOTOR PUMP =3

OFF

.00

62

OT

-- TOTAL SOURCE POWER IS NOW 28.45 KW --

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Figure 6.3-1. - Continued

-000:04:00.0	505301	WSB TK/BOILER HTR 1A	ON	7.94	65	OT
	505303	WSB TK/BOILER HTR 2A	ON	7.73	63	OT
	505305	WSB TK/BOILER HTR 3A	ON	7.94	64	OT
	505401	WSB VENT NOZZ HTR 1A	ON	26.20	65	OT
	505403	WSB VENT NOZZ HTR 2A	ON	21.89	63	OT
	505405	WSB VENT NOZZ HTR 3A	ON	21.74	64	OT
-- TOTAL SOURCE POWER IS NOW				28.55 KW	--	
-000:02:53.0	202401	G02 FLOW CNTL VLV =1	ON	110.42	84	OT
	202402	G02 FLOW CNTL VLV =2	ON	110.54	85	OT
	202403	G02 FLOW CNTL VLV =3	ON	110.51	86	OT
-- TOTAL SOURCE POWER IS NOW				28.90 KW	--	
-000:02:00.0	212501	ENG PRESU V COIL 1LP	ON	28.85	84	OT
	212502	ENG PRESU V COIL 2LP	ON	28.86	85	OT
	212601	ENG PRESU V COIL 1RP	ON	28.87	86	OT
	212602	ENG PRESU V COIL 2RP	ON	28.85	84	OT
-- TOTAL SOURCE POWER IS NOW				29.02 KW	--	
-000:01:52.0	200900	LH2 TOP VLV OP SOL	OFF	.00	84	OT
-- TOTAL SOURCE POWER IS NOW				28.98 KW	--	
-000:01:50.0	202501	GH2 FLOW CNTL VLV =1	ON	109.49	84	OT
	202502	GH2 FLOW CNTL VLV =2	ON	109.50	85	OT
	202503	GH2 FLOW CNTL VLV =3	ON	109.56	86	OT
-- TOTAL SOURCE POWER IS NOW				29.53 KW	--	
-000:01:20.0	200810	LH2 HI PT BLD VALVE	OFF	.00	84	OT
-- TOTAL SOURCE POWER IS NOW				29.50 KW	--	
-000:00:35.0	523101	VNT DR L MD 4/7 SYS1	ON	120.11	203	OT
	523102	VNT DR L MD 4/7 SYS2	ON	118.21	202	OT
	523103	VNT DR R MD 4/7 SYS1	ON	120.11	203	OT
	523104	VNT DR R MD 4/7 SYS2	ON	118.21	202	OT
-- TOTAL SOURCE POWER IS NOW				29.84 KW	--	
-000:00:30.0	050901	WDBND PCDR (ASCI)-RECD	CHANGED TO	67.57	12	DW
	050910	WDBND RCDR (MARS)	ON	56.76	12	AC
	050930	PCM RCDR-RECD-SERIAL	CHANGED TO	54.06	12	DW
	053001	PAO CAMERA-LH WIND	ON	16.08	16	AC
	053002	PAO CAMERA-CREW	ON	16.15	17	AC
	522901	VNT DR L MID 3 SYS 1	ON	120.59	201	OT
	522902	VNT DR L MID 3 SYS 2	ON	117.98	202	OT
	522903	VNT DR R MID 3 SYS 1	ON	120.59	201	OT
	522904	VNT DR R MID 3 SYS 2	ON	119.62	203	OT
	523101	VNT DR L MD 4/7 SYS1	OFF	.00	203	OT
	523102	VNT DR L MD 4/7 SYS2	OFF	.00	202	OT
	523103	VNT DR R MD 4/7 SYS1	OFF	.00	203	OT
	523104	VNT DR R MD 4/7 SYS2	OFF	.00	202	OT

Figure 6.3-1. - Continued

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 30.04 KW --

009:00:25.0	522901	VNT DR L MID 3 SYS 1	OFF	.00	201	OT
	522902	VNT DR L MID 3 SYS 2	OFF	.00	202	OT
	522903	VNT DR R MID 3 SYS 1	OFF	.00	201	OT
	522904	VNT DR R MID 3 SYS 2	OFF	.00	203	OT
	523201	VNT DR L MID 6 SYS 1	ON	120.59	201	OT
	523202	VNT DR L MID 6 SYS 2	ON	119.62	203	OT
	523203	VNT DR R MID 6 SYS 1	ON	120.59	201	OT
	523204	VNT DR R MID 6 SYS 2	ON	117.98	202	OT

-- TOTAL SOURCE POWER IS NOW 30.04 KW --

-003:00:22.0	162501	HPU A GG HTR 1-LHSRB	OFF	.00	102	OT
	162503	HPU B GG HTR 1-LHSRB	OFF	.00	103	OT
	162505	HPU A GG HTR 1-RHSRB	OFF	.00	104	OT
	162507	HPU B GG HTR 1-RHSRB	OFF	.00	105	OT

-- TOTAL SOURCE POWER IS NOW 29.83 KW --

-010:00:20.0	162001	HPU SENSOR A-LHSRB	ON	1.86	90	OT
	162002	HPU SENSOR R-LHSRB	ON	1.86	92	OT
	162003	HPU SENSOR A-RHSRB	ON	1.86	93	OT
	162004	HPU SENSOR B-RHSRB	ON	1.86	95	OT
	162101	HYD PMP BYP V A-LSRB	ON	28.66	102	OT
	162102	HYD PMP BYP V B-LSRB	ON	28.65	103	OT
	162103	HYD PMP BYP V A-RSRB	ON	28.63	104	OT
	162104	HYD PMP BYP V B-RSRB	ON	28.65	105	OT
	162201	FSM ISOL VLV A-L SRB	ON	21.29	102	OT
	162202	FSM ISOL VLV B-L SRB	ON	21.28	103	OT
	162203	FSM ISOL VLV A-R SRB	ON	21.27	104	OT
	162204	FSM ISOL VLV B-R SRB	ON	21.28	105	OT
	162301	FUEL S/OFF V A-L SRB	ON	34.39	102	OT
	162302	FUEL S/OFF V B-L SRB	ON	34.38	103	OT
	162303	FUEL S/OFF V A-R SRB	ON	34.36	104	OT
	162304	FUEL S/OFF V B-R SRB	ON	34.38	105	OT
	162401	FUEL CNTL VL A-L SRB	ON	34.39	102	OT
	162402	FUEL CNTL VL B-L SRB	ON	34.38	103	OT
	162403	FUEL CNTL VL A-R SRB	ON	34.36	104	OT
	162404	FUEL CNTL VL B-R SRB	ON	34.38	105	OT
	523001	VNT DR L MID 5 SYS 1	ON	120.59	201	OT
	523002	VNT DR L MID 5 SYS 2	ON	117.98	202	OT
	523003	VNT DR R MID 5 SYS 1	ON	120.59	201	OT
	523004	VNT DR R MID 5 SYS 2	ON	119.62	203	OT
	523201	VNT DR L MID 6 SYS 1	OFF	.00	201	OT
	523202	VNT DR L MID 6 SYS 2	OFF	.00	203	OT
	523203	VNT DR R MID 6 SYS 1	OFF	.00	201	OT
	523204	VNT DR R MID 6 SYS 2	OFF	.00	202	OT

-- TOTAL SOURCE POWER IS NOW 30.35 KW --

-017:00:18.0	200501	L02 03 F+D VL CL SOL	ON	33.69	86	OT
	200502	L02 03 F+D VL OP SOL	OFF	.00	86	OT
	200701	LH2 03 F+D VL CL SOL	ON	33.70	85	OT
	200702	LH2 03 F+D VL OP SOL	OFF	.00	85	OT

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Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 30.35 KW --		
-000:00:16.0	162101	HYD PMP BYP V A-LSRB OFF .00 102 OT
	162102	HYD PMP BYP V B-LSRB OFF .00 103 OT
	162103	HYD PMP BYP V A-RSRB OFF .00 104 OT
	162104	HYD PMP BYP V B-RSRB OFF .00 105 OT
-- TOTAL SOURCE POWER IS NOW 30.23 KW --		
-000:00:15.0	161401	IGNIT PIC ARM A-LSRB ON 11.61 102 OT
	161402	IGNIT PIC ARM B-LSRB ON 11.60 103 OT
	161403	IGNIT PIC ARM A-RSRB ON 11.60 104 OT
	161404	IGNIT PIC ARM B-RSRB ON 11.60 105 OT
	522801	VNT DR L FD 1/2 SYS1 ON 119.62 203 OT
	522802	VNT DR L FD 1/2 SYS2 ON 118.21 202 OT
	522803	VNT DR R FD 1/2 SYS1 ON 120.09 201 OT
	522804	VNT DR R FD 1/2 SYS2 ON 118.21 202 OT
	523001	VNT DR L MID 5 SYS 1 OFF .00 201 OT
	523002	VNT DR L MID 5 SYS 2 OFF .00 202 OT
	523003	VNT DR R MID 5 SYS 1 OFF .00 201 OT
	523004	VNT DR R MID 5 SYS 2 OFF .00 203 OT
-- TOTAL SOURCE POWER IS NOW 30.27 KW --		
-000:00:12.0	203201	L02 P050 ACC VL 1 CL OFF .00 84 OT
	203202	L02 P050 ACC VL 2 CL OFF .00 85 OT
-- TOTAL SOURCE POWER IS NOW 30.20 KW --		
450 -000:00:10.0	522801	VNT DR L FD 1/2 SYS1 OFF .00 203 OT
	522802	VNT DR L FD 1/2 SYS2 OFF .00 202 OT
	522803	VNT DR R FD 1/2 SYS1 OFF .00 201 OT
	522804	VNT DR R FD 1/2 SYS2 OFF .00 202 OT
	523301	VNT DR L AF 8/9 SYS1 ON 118.21 202 OT
	523302	VNT DR L AF 8/9 SYS2 ON 120.09 201 OT
	523303	VNT DR R AF 8/9 SYS1 ON 119.62 203 OT
	523304	VNT DR R AF 8/9 SYS2 ON 118.21 202 OT
-- TOTAL SOURCE POWER IS NOW 30.20 KW --		
-000:00:08.0	200401	LH2 PREVLV 1 OP SOL ON 31.97 69 OT
	200402	LH2 PREVLV 1 CL SOL OFF .00 69 OT
	200403	LH2 PREVLV 2 OP SOL ON 32.04 70 OT
	200404	LH2 PREVLV 2 CL SOL OFF .00 70 OT
	200405	LH2 PREVLV 3 OP SOL ON 31.96 71 OT
	200406	LH2 PREVLV 3 CL SOL OFF .00 71 OT
-- TOTAL SOURCE POWER IS NOW 30.20 KW --		
-000:00:07.0	203300	L02 OVBD BL VL CL SL ON 34.04 79 OT
-- TOTAL SOURCE POWER IS NOW 30.23 KW --		
-000:00:05.0	523301	VNT DR L AF 8/9 SYS1 OFF .00 202 OT
	523302	VNT DR L AF 8/9 SYS2 OFF .00 201 OT
	523303	VNT DR R AF 8/9 SYS1 OFF .00 203 OT
	523304	VNT DR R AF 8/9 SYS2 OFF .00 202 OT

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 29.69 KW --

000:00:34.0

200101	MN ENG CNTLR 1 CH A	CHANGED TO	511.78	201	OT
200102	MN ENG CNTLR 1 CH B	CHANGED TO	431.94	202	OT
200103	MN ENG CNTLR 2 CH A	CHANGED TO	608.81	202	OT
200104	MN ENG CNTLR 2 CH B	CHANGED TO	437.37	203	OT
200105	MN ENG CNTLR 3 CH A	CHANGED TO	616.45	203	OT
200106	MN ENG CNTLR 3 CH B	CHANGED TO	439.02	201	OT

-- TOTAL SOURCE POWER IS NOW 29.82 KW --

000:00:00.0

010801	ATVC =1 PWR SUP-OPER	CHANGED TO	50.00	66	F4
010802	ATVC =2 PWR SUP-OPER	CHANGED TO	50.00	67	F5
010803	ATVC =3 PWR SUP-OPER	CHANGED TO	50.00	68	F6
010804	ATVC =4 PWR SUP-OPER	CHANGED TO	50.00	80	F6
010821	ATVC =1 ACTS-OPER	CHANGED TO	8.70	66	OT
010822	ATVC =2 ACTS-OPER	CHANGED TO	8.70	67	OT
010823	ATVC =3 ACTS-OPER	CHANGED TO	8.70	68	OT
010824	ATVC =4 ACTS-OPER	CHANGED TO	8.70	80	OT
010901	ASA1 PWR SUP LOG-OPR	CHANGED TO	52.50	66	F4
010902	ASA2 PWR SUP LOG-OPR	CHANGED TO	52.50	67	F5
010903	ASA3 PWR SUP LOG-OPR	CHANGED TO	52.50	68	F6
010904	ASA4 PWR SUP LOG-OPR	CHANGED TO	52.50	80	F6
011001	ASA =1 IVD/RF-OPER	CHANGED TO	2.50	68	F4
011002	ASA =2 IVD/RF-OPER	CHANGED TO	2.50	66	F5
011003	ASA =3 IVD/RF-OPER	CHANGED TO	2.50	67	F6
011004	ASA =4 IVD-OPER	CHANGED TO	1.40	76	F6
011011	ASA 1 ACTUATORS-OPER	CHANGED TO	32.36	66	OT
011012	ASA 2 ACTUATORS-OPER	CHANGED TO	32.37	67	OT
011013	ASA 3 ACTUATORS-OPER	CHANGED TO	32.37	68	OT
011014	ASA 4 ACTUATORS-OPER	CHANGED TO	15.57	80	OT
024801	AUDIO INTF UNIT-PLT	ON	.65	42	AC
024802	AUDIO INTF UNIT-CMDR	ON	.65	41	AC
062401	LOAD CNTL ASSY FWD1	CHANGED TO	20.44	32	W1
062402	LOAD CNTL ASSY FWD2	CHANGED TO	27.38	33	W2
062403	LOAD CNTL ASSY FWD3	CHANGED TO	29.88	34	W3
062501	LOAD CNTL ASSY AFT1	CHANGED TO	99.30	84	F4
062502	LOAD CNTL ASSY AFT2	CHANGED TO	92.76	85	F5
062503	LOAD CNTL ASSY AFT3	CHANGED TO	92.42	86	F6
062601	PCA FWD =1	CHANGED TO	60.90	22	W1
062602	PCA FWD =2	CHANGED TO	62.92	23	W2
062603	PCA FWD =3	CHANGED TO	50.77	24	W3
062701	PCA MID =1	CHANGED TO	44.72	47	FM
062702	PCA MID =2	CHANGED TO	34.84	48	FM
062703	PCA MID =3	CHANGED TO	29.11	49	FM
062801	PCA AFT =1	CHANGED TO	31.48	72	F4
062802	PCA AFT =2	CHANGED TO	19.59	73	F5
062803	PCA AFT =3	CHANGED TO	22.83	74	F6
062804	PCA AFT =4	CHANGED TO	32.53	60	F4
062805	PCA AFT =5	CHANGED TO	42.75	61	F5
062806	PCA AFT =6	CHANGED TO	10.19	62	F6
161401	IGNIT PIC ARM A-LSRB	OFF	.00	102	OT
161402	IGNIT PIC ARM B-LSRB	OFF	.00	103	OT
161403	IGNIT PIC ARM A-RSRB	OFF	.00	104	OT
161404	IGNIT PIC ARM B-RSRB	OFF	.00	105	OT
200101	MN ENG CNTLR 1 CH A	CHANGED TO	557.18	201	OT

Figure 6.3-1. - Continued

	200102	MN ENG CNTLR 1 CH B	CHANGED TO	372.79	202	OT
	200103	MN ENG CNTLR 2 CH A	CHANGED TO	549.14	202	OT
	200104	MN ENG CNTLR 2 CH B	CHANGED TO	376.97	203	OT
	200105	MN ENG CNTLR 3 CH A	CHANGED TO	555.30	203	OT
	200106	MN ENG CNTLR 3 CH B	CHANGED TO	378.24	201	OT
	202401	G02 FLOW CNTL VLV =1	CHANGED TO	40.01	84	OT
	202402	G02 FLOW CNTL VLV =2	CHANGED TO	48.98	85	OT
	202403	G02 FLOW CNTL VLV =3	CHANGED TO	48.97	86	OT
	202501	GH2 FLOW CNTL VLV =1	CHANGED TO	36.67	84	OT
	202502	GH2 FLOW CNTL VLV =2	CHANGED TO	36.65	85	OT
	202503	GH2 FLOW CNTL VLV =3	CHANGED TO	36.64	86	OT
	325701	OIL LINE HTR 1A	OFF	.00	84	OT
	325703	OIL LINE HTR 2A	OFF	.00	85	OT
	325705	OIL LINE HTR 3A	OFF	.00	86	OT
	408501	HI LD DUCT HTR1 SEC1	OFF	.00	47	OT
	408601	HI LD DUCT HTR1 SEC2	OFF	.00	47	OT
	408701	HI LD DCT NOZ HT GP1	OFF	.00	47	OT
	409001	TOP'G DUCT HTR1 SEC1	OFF	.00	47	OT
	409101	TOP'G DUCT HTR1 SEC2	OFF	.00	47	OT
	409201	TOP'G DUCT HTR1 SEC3	OFF	.00	84	OT
	409301	TOP'G DUCT HTR1 SEC4	OFF	.00	84	OT
-- TOTAL SOURCE POWER IS NOW 27.48 KW --						
000:00:30.0	505401	WSB VENT NOZZ HTR 1A	CHANGED TO	73.60	65	OT
	505403	WSB VENT NOZZ HTR 2A	CHANGED TO	61.50	63	OT
	505405	WSB VENT NOZZ HTR 3A	CHANGED TO	59.10	64	OT
-- TOTAL SOURCE POWER IS NOW 27.61 KW --						
000:01:00.0	503401	H2O BR1 APU H2O CT A	ON	2.77	65	OT
	503403	H2O BR2 APU H2O CT A	ON	2.33	63	OT
	503405	H2O BR3 APU H2O CT A	ON	2.21	64	OT
-- TOTAL SOURCE POWER IS NOW 27.62 KW --						
000:02:01.0	403701	FES CONTROLLER PRI A	ON	7.08	86	OT
	403801	FES HI LD PLSR V-PRI	ON	27.02	89	OT
	403811	FES HI LD ISO VL-PRI	ON	27.02	89	OT
	403901	FES TOP'G PLSR V-PRI	ON	27.02	89	OT
	403921	TPNG V HLDNG COIL-PR	ON	3.46	89	OT
-- TOTAL SOURCE POWER IS NOW 27.72 KW --						
000:02:03.0	052901	DATA CAM =1 (ASCENT)	ON	77.41	72	OT
	052902	DATA CAM =2 (ET SEP)	ON	77.77	73	OT
	052903	SURVEILLANCE CAMERA	ON	77.77	73	OT
-- TOTAL SOURCE POWER IS NOW 27.96 KW --						
000:02:09.0	161601	SEP PIC A-FWD LH SRB	ON	22.79	102	OT
	161602	SEP PIC B-FWD LH SRB	ON	22.77	103	OT
	161603	SEP PIC A-FWD RH SRB	ON	22.77	104	OT
	161604	SEP PIC B-FWD RH SRB	ON	22.77	105	OT
	161605	SEP PIC A-AFT LH SRB	ON	45.56	102	OT
	161606	SEP PIC B-AFT LH SRB	ON	45.55	103	OT
	161607	SEP PIC A-AFT RH SRB	ON	45.54	104	OT

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Figure 6.3-1. - Continued

	161608	SEP PIC B-AFT RH SRB	ON	45.55	105	01
		-- TOTAL SOURCE POWER IS NOW 28.24 KW --				
000:02:11.0	062401	LOAD CNTL ASSY FWD1	CHANGED TO	20.76	32	W1
	062402	LOAD CNTL ASSY FWD2	CHANGED TO	23.46	33	W2
	062403	LOAD CNTL ASSY FWD3	CHANGED TO	23.72	34	W3
	062501	LOAD CNTL ASSY AFT1	CHANGED TO	80.08	84	F4
	062502	LOAD CNTL ASSY AFT2	CHANGED TO	69.10	85	F5
	062503	LOAD CNTL ASSY AFT3	CHANGED TO	58.36	86	F6
	062601	PCA FWD =1	CHANGED TO	65.51	22	W1
	062602	PCA FWD =2	CHANGED TO	65.12	23	W2
	062603	PCA FWD =3	CHANGED TO	45.59	24	W3
	062701	PCA MID =1	CHANGED TO	44.18	47	FM
	062702	PCA MID =2	CHANGED TO	25.97	48	FM
	062703	PCA MID =3	CHANGED TO	29.27	49	FM
	062801	PCA AFT =1	CHANGED TO	44.38	72	F4
	062802	PCA AFT =2	CHANGED TO	29.07	73	F5
	062803	PCA AFT =3	CHANGED TO	23.41	74	F6
	062804	PCA AFT =4	CHANGED TO	25.74	60	F4
	062805	PCA AFT =5	CHANGED TO	23.46	61	F5
	062806	PCA AFT =6	CHANGED TO	4.04	62	F6
	071602	DBIA#1 SRB-HI RATE	CHANGED TO	9.46	78	F4
	071604	DBIA#2 SRB-HI RATE	CHANGED TO	9.46	78	F5
	160101	MDM =1 LH SRB	OFF	.00	91	01
	160102	MDM =2 LH SRB	OFF	.00	91	01
	160103	MDM =1 RH SRB	OFF	.00	94	01
	160104	MDM =2 RH SRB	OFF	.00	94	01
	160301	RGA =1 LH SRB (RUN)	OFF	.00	102	01
	160302	RGA =2 LH SRB (RUN)	OFF	.00	103	01
	160303	RGA =3 LH SRB (RUN)	OFF	.00	96	01
	160304	RGA =1 RH SRB (RUN)	OFF	.00	104	01
	160305	RGA =2 RH SRB (RUN)	OFF	.00	105	01
	160306	RGA =3 RH SRB (RUN)	OFF	.00	97	01
	160501	SIG COND =1 LH SRB	OFF	.00	91	01
	160502	SIG COND =2 LH SRB	OFF	.00	91	01
	160503	SIG COND =1 RH SRB	OFF	.00	94	01
	160504	SIG COND =2 RH SRB	OFF	.00	94	01
	161201	CMRR PR XDCA=A LHSRB	OFF	.00	90	01
	161202	CMRR PR XDCA=B LHSRB	OFF	.00	92	01
	161203	CMRR PR XDCA=C LHSRB	OFF	.00	96	01
	161204	CMRR PR XDCA=A RHSRB	OFF	.00	93	01
	161205	CMRR PR XDCA=B RHSRB	OFF	.00	95	01
	161206	CMRR PR XDCA=C RHSRB	OFF	.00	97	01
	161801	APU CNTL ASY A-LSRB	OFF	.00	102	01
	161802	APU CNTL ASY B-LSRB	OFF	.00	103	01
	161803	APU CNTL ASY A-RSRB	OFF	.00	104	01
	161804	APU CNTL ASY B-RSRB	OFF	.00	105	01
	162001	HPU SENSOR A-LHSRB	OFF	.00	90	01
	162002	HPU SENSOR B-LHSRB	OFF	.00	92	01
	162003	HPU SENSOR A-RHSRB	OFF	.00	93	01
	162004	HPU SENSOR B-RHSRB	OFF	.00	95	01
	162201	FSM ISOL VLV A-L SRB	OFF	.00	102	01
	162202	FSM ISOL VLV B-L SRB	OFF	.00	103	01
	162203	FSM ISOL VLV A-R SRB	OFF	.00	104	01
	162204	FSM ISOL VLV B-R SRB	OFF	.00	105	01
	162301	FUEL S/OFF V A-L SRB	OFF	.00	102	01

Figure 6.3-1. - Continued

162302	FUEL S/OFF V B-L SRB	OFF	.00	103	OT
162303	FUEL S/OFF V A-R SRB	OFF	.00	104	OT
162304	FUEL S/OFF V B-R SRB	OFF	.00	105	OT
162401	FUEL CNTL VL A-L SRB	OFF	.00	102	OT
162402	FUEL CNTL VL B-L SRB	OFF	.00	103	OT
162403	FUEL CNTL VL A-R SRB	OFF	.00	104	OT
162404	FUEL CNTL VL B-R SRB	OFF	.00	105	OT
217001	XFD OX/FU FLXL HTA-L	CHANGED TO	20.38	72	OT
217003	XFD OX/FU FLXL HTA-R	CHANGED TO	20.38	72	OT
217101	XFD OX/FU LNE HT-A-L	CHANGED TO	26.93	72	OT
217103	XFD OX/FU LNE HT-A-R	CHANGED TO	26.93	72	OT
217105	XFD OX/FU LNE HT-A-C	CHANGED TO	49.94	72	OT
217201	FU HIPT BLDLN HT-A-A	CHANGED TO	8.79	72	OT
217203	FU HIPT BLDLN HT-A-M	ON	1.99	72	OT
217301	OX HIPT BLDLN HT-A-A	CHANGED TO	8.79	72	OT
217303	OX HIPT BLDLN HT-A-M	ON	1.99	72	OT
217401	LOPT OXFU DRLN HTA-L	CHANGED TO	5.47	72	OT
217403	LOPT OXFU DPLN HTA-R	CHANGED TO	5.47	72	OT
325202	FUEL FEEDLINE HTR 1B	CHANGED TO	3.18	85	OT
325204	FUEL FEEDLINE HTR 2B	CHANGED TO	3.61	86	OT
325206	FUEL FEEDLINE HTR 3B	CHANGED TO	2.24	84	OT
325302	FUEL SERVLIN HTR 1B	CHANGED TO	24.19	85	OT
325304	FUEL SERVLIN HTR 2B	CHANGED TO	17.89	86	OT
325306	FUEL SERVLIN HTR 3B	CHANGED TO	24.19	84	OT
325402	FUEL DRN LINE HTR 1B	ON	2.22	85	OT
325404	FUEL DRN LINE HTR 2B	ON	2.88	86	OT
325406	FUEL DRN LINE HTR 3B	ON	1.77	84	OT
325501	APU 1 PRI H2O HTR 1A	CHANGED TO	14.46	75	OT
325803	APU 2 PRI H2O HTR 1A	CHANGED TO	4.19	76	OT
325805	APU 3 PRI H2O HTR 1A	CHANGED TO	13.69	77	OT
325901	APU 1 SEC H2O HTR 2A	CHANGED TO	15.38	75	OT
325903	APU 2 SEC H2O HTR 2A	CHANGED TO	7.00	76	OT
325905	APU 3 SEC H2O HTR 2A	CHANGED TO	7.00	77	OT
326301	GG H2O TK LN HT 5J4A	CHANGED TO	6.39	75	OT
326303	GG H2O TK LN HT 5D3A	CHANGED TO	11.60	77	OT
505301	WSB TK/BOILER HTR 1A	CHANGED TO	7.51	65	OT
505303	WSB TK/BOILER HTR 2A	CHANGED TO	8.35	63	OT
505305	WSR TK/BOILER HTR 3A	CHANGED TO	8.58	64	OT

-- TOTAL SOURCE POWER IS NOW 27.14 KW --

000:02:11.1	161601	SEP PIC A-FWD LH SRB	OFF	.00	102	OT
	161602	SEP PIC B-FWD LH SRB	OFF	.00	103	OT
	161603	SEP PIC A-FWD RH SRB	OFF	.00	104	OT
	161604	SEP PIC B-FWD RH SRB	OFF	.00	105	OT
	161605	SEP PIC A-AFT LH SRB	OFF	.00	102	OT
	161606	SEP PIC B-AFT LH SRB	OFF	.00	103	OT
	161607	SEP PIC A-AFT RH SRB	OFF	.00	104	OT
	161608	SEP PIC B-AFT RH SRB	OFF	.00	105	OT

-- TOTAL SOURCE POWER IS NOW 26.82 KW --

000:02:15.0	052901	DATA CAM =1 (ASCENT)	OFF	.00	72	OT
	052902	DATA CAM =2 (ET SEPI)	OFF	.00	73	OT
	052903	SURVEILLANCE CAMERA	OFF	.00	73	OT

-- TOTAL SOURCE POWER IS NOW 26.58 KW --

Figure 6.3-1. - Continued

000:04:08.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	30.69	33	A3
-- TOTAL SOURCE POWER IS NOW 26.61 KW --						
000:04:08.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.53	33	A3
-- TOTAL SOURCE POWER IS NOW 26.58 KW --						
000:04:09.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	13.16	33	A3
-- TOTAL SOURCE POWER IS NOW 26.59 KW --						
000:04:09.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.53	33	A3
-- TOTAL SOURCE POWER IS NOW 26.58 KW --						
000:08:33.0	010901	ASA1 PWR SUP LOG-OPR	CHANGED TO	51.50	66	F4
	010902	ASA2 PWR SUP LOG-OPR	CHANGED TO	51.50	67	F5
	010903	ASA3 PWR SUP LOG-OPR	CHANGED TO	51.50	68	F6
	010904	ASA4 PWR SUP LOG-OPR	CHANGED TO	51.50	80	F6
	011001	ASA =1 IVD/RF-OPER	CHANGED TO	.40	68	F4
	011002	ASA =2 IVD/RF-OPER	CHANGED TO	.40	66	F5
	011003	ASA =3 IVD/RF-OPER	CHANGED TO	.40	67	F6
	011004	ASA =4 IVD-OPER	CHANGED TO	.40	76	F6
	011011	ASA 1 ACTUATORS-OPER	CHANGED TO	15.65	66	OT
	011012	ASA 2 ACTUATORS-OPER	CHANGED TO	15.64	67	OT
	011013	ASA 3 ACTUATORS-OPER	CHANGED TO	15.64	68	OT
	011014	ASA 4 ACTUATORS-OPER	CHANGED TO	15.63	80	OT
	055100	PCM MULTIPLEXER	OFF	.00	76	OT
	055200	FM MULTIPLEXER	OFF	.00	76	OT
	055210	FM MULTIPLEXER	OFF	.00	76	OT
	055300	CHARGE AMPLIFIER	OFF	.00	76	OT
	055400	LEVEL SENSOR ELECT	OFF	.00	76	OT
	055500	PRESSURE MEASUREMENT	OFF	.00	76	OT
	062402	LOAD CNTL ASSY FWD2	CHANGED TO	23.58	33	W2
	062403	LOAD CNTL ASSY FWD3	CHANGED TO	23.94	34	W3
	062501	LOAD CNTL ASSY AFT1	CHANGED TO	84.36	84	F4
	062502	LOAD CNTL ASSY AFT2	CHANGED TO	73.96	85	F5
	062503	LOAD CNTL ASSY AFT3	CHANGED TO	45.85	86	F6
	062601	PCA FWD =1	CHANGED TO	70.25	22	W1
	062602	PCA FWD =2	CHANGED TO	71.25	23	W2
	062603	PCA FWD =3	CHANGED TO	40.39	24	W3
	062701	PCA MID =1	CHANGED TO	44.76	47	FM
	062702	PCA MID =2	CHANGED TO	26.38	48	FM
	062703	PCA MID =3	CHANGED TO	29.43	49	FM
	062801	PCA AFT =1	CHANGED TO	45.12	72	F4
	062802	PCA AFT =2	CHANGED TO	32.55	73	F5
	062803	PCA AFT =3	CHANGED TO	28.97	74	F6
	062804	PCA AFT =4	CHANGED TO	18.31	60	F4
	062805	PCA AFT =5	CHANGED TO	30.64	61	F5
	062806	PCA AFT =6	CHANGED TO	3.13	62	F6
	201400	L02 REL'F S/V CL SOL	OFF	.00	46	OT
	201500	LH2 REL'F S/V CL SOL	OFF	.00	46	OT
	202401	G02 FLOW CNTL VLV =1	OFF	.00	84	OT
	202402	G02 FLOW CNTL VLV =2	OFF	.00	85	OT
	202403	G02 FLOW CNTL VLV =3	OFF	.00	86	OT

Figure 6.3-1. - Continued

	202501	GH2 FLOW CNTL VLV =1	OFF	.00	84	OT
	202502	GH2 FLOW CNTL VLV =2	OFF	.00	85	OT
	202503	GH2 FLOW CNTL VLV =3	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 26.02 KW --						
000:08:37.0	200101	MN ENG CNTLP 1 CH A	CHANGED TO	463.19	201	OT
	200103	MN ENG CNTLP 2 CH A	CHANGED TO	457.41	202	OT
	200105	MN ENG CNTLP 3 CH A	CHANGED TO	461.87	203	OT
	200301	LOX PREVLV 1 OP SOL	OFF	.00	69	OT
	200302	LOX PREVLV 1 CL SOL	ON	34.04	69	OT
	200303	LOX PREVLV 2 OP SOL	OFF	.00	70	OT
	200304	LOX PREVLV 2 CL SOL	ON	34.12	70	OT
	200305	LOX PREVLV 3 OP SOL	OFF	.00	71	OT
	200306	LOX PREVLV 3 CL SOL	ON	34.04	71	OT
-- TOTAL SOURCE POWER IS NOW 25.71 KW --						
000:08:39.0	200401	LH2 PREVLV 1 OP SOL	OFF	.00	69	OT
	200402	LH2 PREVLV 1 CL SOL	ON	34.04	69	OT
	200403	LH2 PREVLV 2 OP SOL	OFF	.00	70	OT
	200404	LH2 PREVLV 2 CL SOL	ON	34.12	70	OT
	200405	LH2 PREVLV 3 OP SOL	OFF	.00	71	OT
	200406	LH2 PREVLV 3 CL SOL	ON	34.04	71	OT
	201301	LH2 RC DSC VL OP SOL	OFF	.00	86	OT
	201302	LH2 RC DSC VL CL SOL	ON	35.89	86	OT
-- TOTAL SOURCE POWER IS NOW 25.71 KW --						
456 000:08:40.0	052901	DATA CAM =1 (ASCENT)	ON	80.03	72	OT
	052902	DATA CAM =2 (ET SEP)	ON	80.23	73	OT
	052903	SURVEILLANCE CAMERA	ON	80.23	73	OT
	201101	LO2 FD DSC VL OP SOL	OFF	.00	79	OT
	201102	LO2 FD DSC VL CL SOL	ON	36.00	79	OT
	201201	LH2 FD DSC VL OP SOL	OFF	.00	79	OT
	201202	LH2 FD DSC VL CL SOL	ON	36.00	79	OT
-- TOTAL SOURCE POWER IS NOW 25.96 KW --						
000:08:41.0	200302	LOX PREVLV 1 CL SOL	OFF	.00	69	OT
	200304	LOX PREVLV 2 CL SOL	OFF	.00	70	OT
	200306	LOX PREVLV 3 CL SOL	OFF	.00	71	OT
	200402	LH2 PREVLV 1 CL SOL	OFF	.00	69	OT
	200404	LH2 PREVLV 2 CL SOL	OFF	.00	70	OT
	200406	LH2 PREVLV 3 CL SOL	OFF	.00	71	OT
-- TOTAL SOURCE POWER IS NOW 25.74 KW --						
000:08:42.0	202701	ULL PRES SIG COND =1	OFF	.00	84	F4
	202702	ULL PRES SIG COND =2	OFF	.00	82	F5
	202703	ULL PRES SIG COND =3	OFF	.00	83	F6
	202801	POINT SNSR FLEC-BUS1	OFF	.00	84	OT
	202802	POINT SNSR FLEC-BUS2	OFF	.00	85	OT
	202803	POINT SNSR FLEC-BUS3	OFF	.00	79	OT
	202804	POINT SNSR FLEC-BUS4	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 25.59 KW --						

Figure 6.3-1. - Continued

000:08:53.0	222002	ENG 1 HE INT OUT VLV	ON	35.88	84	OT
	202004	ENG 2 HE INT OUT VLV	ON	35.87	85	OT
	222006	ENG 3 HE INT OUT VLV	ON	35.86	86	OT
	222009	ENG 2 PNEU XOVER VLV	ON	35.86	86	OT
	222101	FWD THRUSTER F1F(-X)	ON	.33	22	OT
	222105	FWD THRUSTER F2F(-X)	ON	.33	23	OT
	222109	FWD THRUSTER F3F(-X)	ON	.33	24	OT
	222111	FWD THRUSTER F3L(+Y)	ON	.33	24	OT
	222201	AFT THRUSTER R1R(-Y)	ON	.44	78	OT
	222204	AFT THRUSTER R2R(-Y)	ON	.44	80	OT
	222207	AFT THRUSTER R3R(-Y)	ON	.44	79	OT
	222214	AFT THRUSTER L1L(+Y)	ON	.44	78	OT
	222217	AFT THRUSTER L2L(+Y)	ON	.44	80	OT
	222221	AFT THRUSTER L3L(+Y)	ON	.44	79	OT
-- TOTAL SOURCE POWER IS NOW 25.75 KW --						
000:08:56.0	502802	LH2 UMB HYD ACT1-RET	ON	10.06	87	OT
	502804	LH2 UMB HYD ACT2-RET	ON	10.06	87	OT
	502806	LH2 UMB HYD ACT3-RET	ON	10.06	87	OT
	502902	LO2 UMB HYD ACT1-RET	ON	10.06	87	OT
	502904	LO2 UMB HYD ACT2-RET	ON	10.06	87	OT
	502906	LO2 UMB HYD ACT3-RET	ON	10.06	87	OT
-- TOTAL SOURCE POWER IS NOW 25.81 KW --						
000:08:58.0	502802	LH2 UMB HYD ACT1-RET	OFF	.00	87	OT
	502804	LH2 UMB HYD ACT2-RET	OFF	.00	87	OT
	502806	LH2 UMB HYD ACT3-RET	OFF	.00	87	OT
	502902	LO2 UMB HYD ACT1-RET	OFF	.00	87	OT
	502904	LO2 UMB HYD ACT2-RET	OFF	.00	87	OT
	502906	LO2 UMB HYD ACT3-RET	OFF	.00	87	OT
-- TOTAL SOURCE POWER IS NOW 25.75 KW --						
000:08:59.0	060301	MEC=1-AVERAGE	CHANGED TO	210.00	78	F4
	060302	MEC=2-AVERAGE	CHANGED TO	210.00	79	F5
-- TOTAL SOURCE POWER IS NOW 26.01 KW --						
000:09:01.0	060301	MEC=1-AVERAGE	CHANGED TO	84.00	78	F4
	060302	MEC=2-AVERAGE	CHANGED TO	84.00	79	F5
-- TOTAL SOURCE POWER IS NOW 25.75 KW --						
000:09:50.0	052901	DATA CAM =1 (ASCENT)	OFF	.00	72	OT
	052902	DATA CAM =2 (ET SEP)	OFF	.00	73	OT
	052903	SURVEILLANCE CAMERA	OFF	.00	73	OT
-- TOTAL SOURCE POWER IS NOW 25.50 KW --						
000:10:00.0	503301	H2O BR1 HYD H2O CT A	ON	14.33	65	OT
	503303	H2O BR2 HYD H2O CT A	ON	12.31	63	OT
	503305	H2O BR3 HYD H2O CT A	ON	11.39	64	OT
	503601	WSB1 HYD BYP CT VL A	ON	28.66	217	OT
	503603	WSB2 HYD BYP CT VL A	ON	28.29	213	OT

Figure 6.3-1. - Continued

503605		WSB3 HYD BYP CT VL A	ON	27.71	214	OT
		-- TOTAL SOURCE POWER IS NOW		25.63 KW --		
000:10:34.0	210301	LOX PREVLV 1 OP SOL	ON	33.45	69	OT
	200303	LOX PREVLV 2 OP SOL	ON	33.48	70	OT
	200305	LOX PREVLV 3 OP SOL	ON	33.45	71	OT
	201801	LO2 MANF REPRS VL 1	ON	35.19	86	OT
	201802	LO2 MANF REPRS VL 2	ON	35.19	86	OT
	210101	VAP ISO VLV 1 LT POD	ON	47.39	75	OT
	210102	VAP ISO VLV 2 LT POD	ON	47.42	76	OT
	210201	HE ISO VLV A LFT POD	ON	67.83	75	OT
	210202	HE ISO VLV B LFT POD	ON	67.86	76	OT
	210301	VAP ISO VLV 1 RT POD	ON	47.39	75	OT
	210302	VAP ISO VLV 2 RT POD	ON	47.38	77	OT
	210401	HE ISO VLV A RGT POD	ON	67.83	75	OT
	210402	HE ISO VLV B RGT POD	ON	67.82	77	OT
	210801	LP PTH ACT GMBL PURN	ON	55.75	75	OT
	210802	LP YAW ACT GMBL PURN	ON	55.74	77	OT
	210901	RP PTH ACT GMBL PURN	ON	55.74	77	OT
	210902	RP YAW ACT GMBL PURN	ON	55.74	77	OT
	212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	27.12	78	OT
	212402	QUAN GAGE TOT-FP-OPR	CHANGED TO	27.10	80	OT
	212701	ENG CTL V 1 COIL 1LP	ON	29.64	84	OT
	212702	ENG CTL V 1 COIL 2LP	ON	29.64	85	OT
	212801	ENG CTL V 2 COIL 1LP	ON	29.64	84	OT
	212802	ENG CTL V 2 COIL 2LP	ON	29.64	85	OT
	212901	ENG CTL V 1 COIL 1RP	ON	29.62	86	OT
	212902	ENG CTL V 1 COIL 2RP	ON	29.64	84	OT
	213001	ENG CTL V 2 COIL 1RP	ON	29.62	86	OT
	213002	ENG CTL V 2 COIL 2RP	ON	29.64	84	OT
		-- TOTAL SOURCE POWER IS NOW		26.81 KW --		
000:10:50.0	503601	WSB1 HYD BYP CT VL A	OFF	.00	217	OT
	503602	WSB2 HYD BYP CT VL A	OFF	.00	213	OT
	503605	WSB3 HYD BYP CT VL A	OFF	.00	214	OT
		-- TOTAL SOURCE POWER IS NOW		26.72 KW --		
000:12:15.0	021600	S-BND ANT SW ASY-DES	CHANGED TO	30.70	33	A3
		-- TOTAL SOURCE POWER IS NOW		26.75 KW --		
000:12:15.1	021600	S-BND ANT SW ASY-DES	CHANGED TO	.53	33	A3
		-- TOTAL SOURCE POWER IS NOW		26.72 KW --		
000:12:16.0	021600	S-BND ANT SW ASY-DES	CHANGED TO	13.17	33	A3
		-- TOTAL SOURCE POWER IS NOW		26.74 KW --		
000:12:16.1	021600	S-BND ANT SW ASY-DES	CHANGED TO	.53	33	A3
		-- TOTAL SOURCE POWER IS NOW		26.72 KW --		
000:12:19.0	201801	LO2 MANF REPRS VL 1	OFF	.00	86	OT

Figure 6.3-1. - Continued

201802	L02 MANF REPRS VL 2	OFF	.00	86	01	
-- TOTAL SOURCE POWER IS NOW 26.65 KW --						
000:12:24.0	021101	S-BAND FM XMITR =1	CHANGED TO	9.91	33	W3
	021200	S-BAND FM SIG PRO-OPB	CHANGED TO	.71	36	A3
	040401	OPS-1 RECORDER-REPLY	CHANGED TO	14.94	28	W2
	062402	LOAD CNTL ASSY FWD2	CHANGED TO	25.00	33	W2
	062403	LOAD CNTL ASSY FWD3	CHANGED TO	22.79	34	W3
	062501	LOAD CNTL ASSY AFT1	CHANGED TO	63.63	84	F4
	062502	LOAD CNTL ASSY AFT2	CHANGED TO	57.94	85	F5
	062503	LOAD CNTL ASSY AFT3	CHANGED TO	65.44	86	F6
	062601	PCA FWD =1	CHANGED TO	79.39	22	W1
	062602	PCA FWD =2	CHANGED TO	50.71	23	W2
	062603	PCA FWD =3	CHANGED TO	41.14	24	W3
	062701	PCA MID =1	CHANGED TO	46.34	47	FM
	062702	PCA MID =2	CHANGED TO	23.72	48	FM
	062703	PCA MID =3	CHANGED TO	29.23	49	FM
	062801	PCA AFT =1	CHANGED TO	29.25	72	F4
	062802	PCA AFT =2	CHANGED TO	15.75	73	F5
	062803	PCA AFT =3	CHANGED TO	16.19	74	F6
	062804	PCA AFT =4	CHANGED TO	26.68	60	F4
	062805	PCA AFT =5	CHANGED TO	25.51	61	F5
	062806	PCA AFT =6	CHANGED TO	3.89	62	F6
	210101	VAP ISO VLV 1 LT POD	OFF	.00	75	OT
	210102	VAP ISO VLV 2 LT POD	OFF	.00	76	OT
	210201	HE ISO VLV A LFT POD	OFF	.00	75	OT
	210202	HE ISO VLV B LFT POD	OFF	.00	76	OT
	210301	VAP ISO VLV 1 RT POD	OFF	.00	75	OT
	210302	VAP ISO VLV 2 RT POD	OFF	.00	77	OT
	210401	HE ISO VLV A RGT POD	OFF	.00	75	OT
	210402	HE ISO VLV B RGT POD	OFF	.00	77	OT
	210801	LP PTH ACT GMBL BURN	OFF	.00	75	OT
	210802	LP YAW ACT GMBL BURN	OFF	.00	75	OT
	210901	RP PTH ACT GMBL BURN	OFF	.00	77	OT
	210902	RP YAW ACT GMBL BURN	OFF	.00	77	OT
	212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	8.60	78	OT
	212402	QUAN GAGE TOT-PP-OPR	CHANGED TO	8.60	80	OT
	212501	ENG PRESU V COIL 1LP	OFF	.00	84	OT
	212502	ENG PRESU V COIL 2LP	OFF	.00	85	OT
	212601	ENG PRESU V COIL 1RP	OFF	.00	86	OT
	212602	ENG PRESU V COIL 2RP	OFF	.00	84	OT
	212701	ENG CTL V 1 COIL 1LP	OFF	.00	84	OT
	212702	ENG CTL V 1 COIL 2LP	OFF	.00	85	OT
	212801	ENG CTL V 2 COIL 1LP	OFF	.00	84	OT
	212802	ENG CTL V 2 COIL 2LP	OFF	.00	85	OT
	212901	ENG CTL V 1 COIL 1RP	OFF	.00	86	OT
	212902	ENG CTL V 1 COIL 2RP	OFF	.00	84	OT
	213001	ENG CTL V 2 COIL 1RP	OFF	.00	86	OT
	213002	ENG CTL V 2 COIL 2RP	OFF	.00	84	OT
	220101	FWD THRUSTER F1F(-X)	CHANGED TO	.10	22	OT
	220105	FWD THRUSTER F2F(-X)	CHANGED TO	.10	23	OT
	220109	FWD THRUSTER F3F(-X)	CHANGED TO	.10	24	OT
	220111	FWD THRUSTER F3L(+Y)	CHANGED TO	.10	24	OT
	220201	AFT THRUSTER R1R(-Y)	CHANGED TO	.13	78	OT
	220204	AFT THRUSTER R2R(-Y)	CHANGED TO	.13	80	OT
	220207	AFT THRUSTER R3R(-Y)	CHANGED TO	.13	79	OT

Figure 6.3-1. - Continued

	220214	AFT THRUSTER L1L1(+Y)	CHANGED TO	.13	78	OT
	220217	AFT THRUSTER L2L1(+Y)	CHANGED TO	.13	80	OT
	220221	AFT THRUSTER L3L1(+Y)	CHANGED TO	.13	79	OT
	408501	HI LD DUCT HTR1 SEC1	ON	553.50	47	OT
	408601	HI LD DUCT HTR1 SEC2	ON	254.60	47	OT
	408701	HI LD DCT NOZ HT GPI	ON	130.70	47	OT
	409101	TOP'G DUCT HTR1 SEC1	ON	378.90	47	OT
	409201	TOP'G DUCT HTR1 SEC2	ON	468.60	47	OT
	409301	TOP'G DUCT HTR1 SEC3	ON	62.80	84	OT
	409401	TOP'G DUCT HTR1 SEC4	ON	64.80	84	OT
	409501	SONIC LFT NOZ HTR 1A	ON	25.00	84	OT
	600201	SEAT ADJ ACT MTR-LFT	ON	122.55	11	AC
	600202	SEAT ADJ ACT MT-RGHT	ON	120.20	10	AC
-- TOTAL SOURCE POWER IS NOW 27.64 KW --						
000:12:29.0	200301	LOX PREVLV 1 OP SOL	OFF	.00	69	OT
	200302	LOX PREVLV 1 CL SOL	ON	33.50	69	OT
	200303	LOX PREVLV 2 OP SOL	OFF	.00	70	OT
	200304	LOX PREVLV 2 CL SOL	ON	33.54	70	OT
	200305	LOX PREVLV 3 OP SOL	OFF	.00	71	OT
	200306	LOX PREVLV 3 CL SOL	ON	33.49	71	OT
-- TOTAL SOURCE POWER IS NOW 27.64 KW --						
000:12:30.0	053001	PAD CAMERA-LH WIND	OFF	.00	16	AC
	053002	PAD CAMERA-CREW	OFF	.00	17	AC
	200401	LH2 PREVLV 1 OP SOL	ON	33.35	69	OT
	200403	LH2 PREVLV 2 OP SOL	ON	33.43	70	OT
	200405	LH2 PREVLV 3 OP SOL	ON	33.35	71	OT
-- TOTAL SOURCE POWER IS NOW 27.72 KW --						
000:12:31.0	200302	LOX PREVLV 1 CL SOL	OFF	.00	69	OT
	200304	LOX PREVLV 2 CL SOL	OFF	.00	70	OT
	200306	LOX PREVLV 3 CL SOL	OFF	.00	71	OT
-- TOTAL SOURCE POWER IS NOW 27.61 KW --						
000:12:34.0	213301	ENGINE PURGE VLVE-LP	ON	59.18	84	OT
	213302	ENGINE PURGE VLVE-RP	ON	59.24	86	OT
-- TOTAL SOURCE POWER IS NOW 27.73 KW --						
000:12:36.0	213301	ENGINE PURGE VLVE-LP	OFF	.00	84	OT
	213302	ENGINE PURGE VLVE-RP	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 27.61 KW --						
000:12:39.0	201901	LH2 MANF REPRS VL 1	ON	35.31	85	OT
	201902	LH2 MANF REPRS VL 2	ON	35.31	85	OT
	600201	SEAT ADJ ACT MTR-LFT	OFF	.00	11	AC
	600202	SEAT ADJ ACT MT-RGHT	OFF	.00	10	AC
-- TOTAL SOURCE POWER IS NOW 27.43 KW --						

Figure 6.3-1. - Continued

033:13:16.0	201901	LH2 MANF REPRS VL 1	OFF	.00	85	OT
	201902	LH2 MANF REPRS VL 2	OFF	.00	85	OT
-- TOTAL SOURCE POWER IS NOW 27.36 KW --						
033:13:26.0	200401	LH2 PREVLV 1 OP SOL	OFF	.00	69	OT
	200403	LH2 PREVLV 2 OP SOL	OFF	.00	70	OT
	200405	LH2 PREVLV 3 OP SOL	OFF	.00	71	OT
	200501	L02 03 F+D VL CL SOL	OFF	.00	86	OT
	200601	L02 18 F+D VL CL SOL	OFF	.00	85	OT
	200701	LH2 08 F+D VL CL SOL	OFF	.00	85	OT
	200801	LH2 13 F+D VL CL SOL	OFF	.00	84	OT
	201102	L02 FD DSC VL CL SOL	OFF	.00	79	OT
	201202	LH2 FD DSC VL CL SOL	OFF	.00	79	OT
	201302	LH2 RC DSC VL CL SOL	OFF	.00	86	OT
	202002	ENG 1 HE INT OUT VLV	OFF	.00	84	OT
	202004	ENG 2 HE INT OUT VLV	OFF	.00	85	OT
	202006	ENG 3 HE INT OUT VLV	OFF	.00	86	OT
	203300	L02 OVBD BL VL CL SL	OFF	.00	79	OT
	203600	ENG 2 PNEU XOVER VLV	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 26.79 KW --						
033:13:33.0	061803	H202 CRYO ASY1A-H2CY	ON	6.14	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.24	9	FM
	061805	H202 CRYO ASY1A-02CY	ON	23.52	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	23.90	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.27	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.24	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	24.02	8	FM
	061816	H202 CRYO ASY2B-02CY	ON	23.90	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
-- TOTAL SOURCE POWER IS NOW 29.12 KW --						
033:13:45.0	054101	DATA CAMERA 1 HEATER	OFF	.00	72	OT
	054102	DATA CAMERA 2 HEATER	OFF	.00	72	OT
	054103	SURVEILLANCE CAM HTR	OFF	.00	72	OT
-- TOTAL SOURCE POWER IS NOW 28.92 KW --						
033:13:53.0	010801	ATVC =1 PWP SUP-OPER	CHANGED TO	38.90	66	F4
	010802	ATVC =2 PWP SUP-OPER	CHANGED TO	38.90	67	F5
	010803	ATVC =3 PWP SUP-OPER	CHANGED TO	38.90	68	F6
	010804	ATVC =4 PWP SUP-OPER	CHANGED TO	38.90	80	F6
	010821	ATVC =1 ACTS-OPER	CHANGED TO	3.30	66	OT

Figure 6.3-1. - Continued

010822	ATVC =2 ACTS-OPER	CHANGED TO	3.30	67	OT
010823	ATVC =3 ACTS-OPER	CHANGED TO	3.30	68	OT
010824	ATVC =4 ACTS-OPER	CHANGED TO	3.30	60	OT
320201	APU 1 FU ISO VLV 1	OFF	.00	63	OT
320202	APU 1 FU ISO VLV 2	OFF	.00	64	OT
320203	APU 2 FU ISO VLV 1	OFF	.00	64	OT
320204	APU 2 FU ISO VLV 2	OFF	.00	65	OT
320205	APU 3 FU ISO VLV 1	OFF	.00	65	OT
320206	APU 3 FU ISO VLV 2	OFF	.00	63	OT
320301	APU1 CNTRLR-OPERATE	OFF	.00	66	F4
320302	APU2 CNTRLR-OPERATE	OFF	.00	67	F5
320303	APU3 CNTRLR-OPERATE	OFF	.00	68	F6
320401	APU 1 SHUTOFF VLV	OFF	.00	66	OT
320402	APU 2 SHUTOFF VLV	OFF	.00	67	OT
320403	APU 3 SHUTOFF VLV	OFF	.00	68	OT
320501	APU 1 MODULATING VLV	OFF	.00	66	OT
320502	APU 2 MODULATING VLV	OFF	.00	67	OT
320503	APU 3 MODULATING VLV	OFF	.00	68	OT
500601	MN PMP =1 DEPRES VLV	ON	21.90	66	OT
500602	MN PMP =2 DEPRES VLV	ON	21.90	67	OT
500603	MN PMP =3 DEPRES VLV	ON	21.90	68	OT
500901	MPS =1 SYS S/O VALVE	ON	17.12	84	OT
500902	MPS =2 SYS S/O VALVE	ON	17.14	85	OT
500903	MPS =3 SYS S/O VALVE	ON	17.14	86	OT
501801	RUD/SPBK SW VL ACT 1	OFF	.00	213	OT
501802	RUD/SPDBK SW VL PS2	OFF	.00	216	OT
501901	ME 1 PITCH SW V ACTV	OFF	.00	216	OT
501902	ME 1 YAW SW ACTV	OFF	.00	216	OT
501903	ME 2 PITCH SW V ACTV	OFF	.00	216	OT
501904	ME 2 YAW SW V ACTV	OFF	.00	216	OT
501905	ME 3 PITCH SW V ACTV	OFF	.00	216	OT
501906	ME 3 YAW SW V ACTV	OFF	.00	216	OT
502001	ELV ACT SW V ACT-LO	OFF	.00	213	OT
502002	ELV ACT SW V PS2-LO	OFF	.00	216	OT
502003	ELV ACT SW V ACT-LI	OFF	.00	213	OT
502004	ELV ACT SW V PS2-LI	OFF	.00	216	OT
502005	ELV ACT SW V ACT-R1	OFF	.00	213	OT
502006	ELV ACT SW V PS2-R1	OFF	.00	216	OT
502007	ELV ACT SW V ACT-R0	OFF	.00	213	OT
502008	ELV ACT SW V PS2-R0	OFF	.00	216	OT
503301	H2O BR1 HYD H2O CT A	OFF	.00	65	OT
503302	H2O BR2 HYD H2O CT A	OFF	.00	63	OT
503303	H2O BR3 HYD H2O CT A	OFF	.00	64	OT
503401	H2O BR1 APU H2O CT A	OFF	.00	65	OT
503402	H2O BR2 APU H2O CT A	OFF	.00	63	OT
503403	H2O BR3 APU H2O CT A	OFF	.00	64	OT
503501	WSB #1 GN2 CTL VL A	ON	39.19	65	OT
503502	WSB #2 GN2 CTL VL A	ON	38.46	63	OT
503503	WSB #3 GN2 CTL VL A	ON	39.22	64	OT

-- TOTAL SOURCE POWER IS NOW 28.61 KW --

000:13:53.3	500901	MPS =1 SYS S/O VALVE	OFF	.00	84	OT
	500902	MPS =2 SYS S/O VALVE	OFF	.00	85	OT
	500903	MPS =3 SYS S/O VALVE	OFF	.00	86	OT
	503501	WSB #1 GN2 CTL VL A	OFF	.00	65	OT
	503503	WSB #2 GN2 CTL VL A	OFF	.00	63	OT

Figure 6.3-1. - Continued

Figure 6.3-1. - Continued

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503505

WSB #3 GN2 CTL VL A OFF

.00

64

01

-- TOTAL SOURCE POWER IS NOW 28.43 KW --

000:14:07.0

408201

SEC FWTR LN HTA-TS11 ON

.49

96

01

408203

SEC FWTR LN HTA-TS12 ON

1.19

86

01

408205

SEC FWTR LN HTA-TS13 ON

3.58

49

01

408207

SEC FWTR LN HTA-TS3 ON

1.79

86

01

-- TOTAL SOURCE POWER IS NOW 28.44 KW --

000:14:23.0

500601

MN PMP #1 DEPRES VLV OFF

.00

66

01

500602

MN PMP #2 DEPRES VLV OFF

.00

67

01

500603

MN PMP #3 DEPRES VLV OFF

.00

68

01

-- TOTAL SOURCE POWER IS NOW 28.37 KW --

000:14:24.0

053700

ACIP PACKAGE OFF

.00

49

01

053800

ACIP PCM MASTER OFF

.00

49

01

053900

ACIP PCM SLAVE OFF

.00

49

01

054000

ACIP MINI DHE OFF

.00

49

01

054010

INTF CNTL MOD-ACIP OFF

.00

49

AC

-- TOTAL SOURCE POWER IS NOW 28.21 KW --

000:15:33.0

200101

MN ENG CNTLR 1 CH A OFF

.00

201

01

200102

MN ENG CNTLR 1 CH B OFF

.00

202

01

200103

MN ENG CNTLR 2 CH A OFF

.00

202

01

200104

MN ENG CNTLR 2 CH B OFF

.00

203

01

200105

MN ENG CNTLR 3 CH A OFF

.00

203

01

200106

MN ENG CNTLR 3 CH B OFF

.00

201

01

-- TOTAL SOURCE POWER IS NOW 25.47 KW --

000:15:40.0

320301

APU1 CNTLR-OPERATE ON

6.54

66

F4

320302

APU2 CNTLR-OPERATE ON

6.54

67

F5

320303

APU3 CNTLR-OPERATE ON

6.54

68

F6

-- TOTAL SOURCE POWER IS NOW 25.50 KW --

000:16:33.0

200502

L02 OB F+D VL OP SOL ON

36.28

86

01

200602

L02 IB F+D VL OP SOL ON

36.30

85

01

200702

LH2 OB F+D VL OP SOL ON

36.30

85

01

200802

LH2 IB F+D VL OP SOL ON

36.25

84

01

200810

LH2 H1 PT BLD VALVE ON

36.25

84

01

200900

LH2 TOP VLV OP SOL ON

36.25

84

01

201600

CH2 PRS'N LNE VNT VL ON

36.26

86

01

202101

ENG 1 HE SPY ISO VLA OFF

.00

84

01

202102

ENG 1 HE SPY ISO VLB OFF

.00

67

01

202105

ENG 3 HE SPY ISO VLA OFF

.00

86

01

202106

ENG 3 HE SPY ISO VLB OFF

.00

66

01

-- TOTAL SOURCE POWER IS NOW 25.61 KW --

000:17:24.0

050901

WDBND RCDR(ASC)-RECD OFF

.00

12

DW

050910

WDBND RCDR (MAPST) OFF

.00

12

AC

Figure 6.3-1. - Continued

000:17:33.0		201600	-- TOTAL SOURCE POWER IS NOW 25.48 KW --								
			GH2 PRS'N LNE VNT VL	OFF		.00	86	OT			
000:17:50.0		511101	-- TOTAL SOURCE POWER IS NOW 25.44 KW --								
		511102	ET UMB CL LCH 1 MT 1	ON		108.94	201	OT			
		511103	ET UMB CL LCH 1 MT 2	ON		108.50	202	OT			
		511104	ET UMB CL LCH 2 MT 1	ON		108.94	201	OT			
			ET UMB CL LCH 2 MT 2	ON		108.66	203	OT			
000:17:56.0		510901	-- TOTAL SOURCE POWER IS NOW 25.01 KW --								
		510902	ET UMB LH D DR MTR 1	ON		243.12	201	OT			
		510903	ET UMB LH D DR MTR 2	ON		244.40	203	OT			
		510904	ET UMB RH D DR MTR 1	ON		244.40	203	OT			
		511101	ET UMB RH D DR MTR 2	ON		241.83	202	OT			
		511102	ET UMB CL LCH 1 MT 1	OFF		.00	201	OT			
		511103	ET UMB CL LCH 1 MT 2	OFF		.00	202	OT			
		511104	ET UMB CL LCH 2 MT 1	OFF		.00	201	OT			
			ET UMB CL LCH 2 MT 2	OFF		.00	203	OT			
000:18:20.0		510901	-- TOTAL SOURCE POWER IS NOW 26.51 KW --								
		510902	ET UMB LH D DR MTR 1	OFF		.00	201	OT			
		510903	ET UMB LH D DR MTR 2	OFF		.00	203	OT			
		510904	ET UMB RH D DR MTR 1	OFF		.00	203	OT			
		511101	ET UMB RH D DR MTR 2	OFF		.00	202	OT			
		511102	ET UMB LH D LCH MT 1	ON		276.32	201	OT			
		511103	ET UMB LH D LCH MT 2	ON		274.81	202	OT			
		511104	ET UMB RH D LCH MT 1	ON		275.77	203	OT			
			ET UMB RH D LCH MT 2	ON		274.81	202	OT			
000:18:26.0		511101	-- TOTAL SOURCE POWER IS NOW 26.64 KW --								
		511102	ET UMB LH D LCH MT 1	OFF		.00	201	OT			
		511103	ET UMB LH D LCH MT 2	OFF		.00	202	OT			
		511104	ET UMB RH D LCH MT 1	OFF		.00	203	OT			
			ET UMB RH D LCH MT 2	OFF		.00	202	OT			
000:19:09.0		021600	-- TOTAL SOURCE POWER IS NOW 25.44 KW --								
			S-BND ANT SW ASY-QES	CHANGED TO		31.53	33	A3			
000:19:09.1		021600	-- TOTAL SOURCE POWER IS NOW 25.48 KW --								
			S-RND ANT SW ASY-QES	CHANGED TO		.54	33	A3			
000:19:10.0		021600	-- TOTAL SOURCE POWER IS NOW 25.44 KW --								
			S-BND ANT SW ASY-QES	CHANGED TO		13.52	33	A3			
000:19:10.1		021600	-- TOTAL SOURCE POWER IS NOW 25.46 KW --								
			S-BND ANT SW ASY-QES	CHANGED TO		.54	33	A3			
			-- TOTAL SOURCE POWER IS NOW 25.44 KW --								

Figure 6.3-1. - Continued

000:22:11.0	505401	WSB VENT NOZZ HTR 1A	OFF	.00	65	OT
	505403	WSB VENT NOZZ HTR 2A	OFF	.00	63	OT
	505405	WSB VENT NOZZ HTR 3A	OFF	.00	64	OT
-- TOTAL SOURCE POWER IS NOW 25.24 KW --						
000:23:33.0	061802	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 24.81 KW --						
000:24:43.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	31.71	33	A3
-- TOTAL SOURCE POWER IS NOW 24.84 KW --						
000:24:43.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.54	33	A3
-- TOTAL SOURCE POWER IS NOW 24.81 KW --						
000:24:44.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	13.60	33	A3
-- TOTAL SOURCE POWER IS NOW 24.82 KW --						
000:24:44.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.54	33	A3
-- TOTAL SOURCE POWER IS NOW 24.81 KW --						
000:27:24.0	022201	UHF XCVR-XMT/REC	OFF	.00	10	AC
-- TOTAL SOURCE POWER IS NOW 24.75 KW --						
000:35:09.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	31.72	33	A3
-- TOTAL SOURCE POWER IS NOW 24.79 KW --						
000:35:09.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.54	33	A3
-- TOTAL SOURCE POWER IS NOW 24.75 KW --						
000:35:10.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	13.60	33	A3
-- TOTAL SOURCE POWER IS NOW 24.77 KW --						
000:35:10.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.54	33	A3
-- TOTAL SOURCE POWER IS NOW 24.75 KW --						
000:38:33.0	200501	L02 OB F+D VL CL SOL	ON	36.83	86	OT
	200502	L02 OB F+D VL OP SOL	OFF	.00	86	OT
	200602	L02 IB F+D VL OP SOL	OFF	.00	85	OT

Figure 6.3-1. - Continued

	200701	LH2 0B F+D VL CL SOL	ON	36.84	85	OT
	200702	LH2 03 F+D VL OP SOL	OFF	.00	85	OT
	200802	LH2 1B F+D VL OP SOL	OFF	.00	84	OT
	200910	LH2 HI PT FLD VALVE	OFF	.00	84	OT
	200900	LH2 TOP VLV OP SOL	OFF	.00	84	OT
	202103	ENG 2 HE SPY ISO VLA	OFF	.00	85	OT
	202104	ENG 2 HE SPY ISO VLB	OFF	.00	82	OT
	202201	PNEU HE SPY ISO VL 1	OFF	.00	84	OT
	202202	PNEU HE SPY ISO VL 2	OFF	.00	85	OT
	-- TOTAL SOURCE POWER IS NOW			24.44 KW --		
000:38:43.0	200501	L02 0B F+D VL CL SOL	OFF	.00	86	OT
	200701	LH2 0B F+D VL CL SOL	OFF	.00	85	OT
	-- TOTAL SOURCE POWER IS NOW			24.36 KW --		
000:43:33.0	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	051816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
	-- TOTAL SOURCE POWER IS NOW			22.47 KW --		
000:43:50.0	212501	ENG PRESU V COIL 1LP	ON	31.41	84	OT
	212502	ENG PRESU V COIL 2LP	ON	31.45	85	OT
	212601	ENG PRESU V COIL 1RP	ON	31.44	86	OT
	212602	ENG PRESU V COIL 2RP	ON	31.41	84	OT
	-- TOTAL SOURCE POWER IS NOW			22.60 KW --		
000:44:28.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	32.31	33	A3
	-- TOTAL SOURCE POWER IS NOW			22.64 KW --		
000:44:28.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.55	33	A3
	-- TOTAL SOURCE POWER IS NOW			22.60 KW --		
000:44:29.0	021600	S-BND ANT SW ASY-QES	CHANGED TO	13.86	33	A3
	-- TOTAL SOURCE POWER IS NOW			22.62 KW --		
000:44:29.1	021600	S-BND ANT SW ASY-QES	CHANGED TO	.55	33	A3
	-- TOTAL SOURCE POWER IS NOW			22.60 KW --		
000:45:20.0	050910	WDBND RCDR (MARST)	ON	60.36	12	AC

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Figure 6.3-1. - Continued

		-- TOTAL SOURCE POWER IS NOW 22.66 KW --					
000:45:50.0	210101	VAP ISO VLV 1 LT POD	ON	49.22	75	OT	
	210102	VAP ISO VLV 2 LT POD	ON	49.36	76	OT	
	210201	HE ISO VLV A LFT POD	ON	70.46	75	OT	
	210202	HE ISO VLV B LFT POD	ON	70.65	76	OT	
	210301	VAP ISO VLV 1 RT POD	ON	49.22	75	OT	
	210302	VAP ISO VLV 2 RT POD	ON	49.23	77	OT	
	210401	HE ISO VLV A RGT POD	ON	70.46	75	OT	
	210402	HE ISO VLV B RGT POD	ON	70.46	77	OT	
	210801	LP PTH ACT GMBL BURN	ON	57.91	75	OT	
	210802	LP YAW ACT GMBL BURN	ON	57.91	75	OT	
	210901	RP PTH ACT GMBL BURN	ON	57.92	77	OT	
	210902	RP YAW ACT GMBL BURN	ON	57.92	77	OT	
	212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	28.30	78	OT	
	212402	QUAN GAGE TOT-RP-OPR	CHANGED TO	28.23	80	OT	
	212701	ENG CTL V 1 COIL 1LP	ON	30.81	84	OT	
	212702	ENG CTL V 1 COIL 2LP	ON	30.91	85	OT	
	212801	ENG CTL V 2 COIL 1LP	ON	30.81	84	OT	
	212802	ENG CTL V 2 COIL 2LP	ON	30.91	85	OT	
	212901	ENG CTL V 1 COIL 1RP	ON	30.84	86	OT	
	212902	ENG CTL V 1 COIL 2RP	ON	30.81	84	OT	
	213001	ENG CTL V 2 COIL 1RP	ON	30.84	86	OT	
	213002	ENG CTL V 2 COIL 2RP	ON	30.81	84	OT	
		-- TOTAL SOURCE POWER IS NOW 23.71 KW --					
000:47:21.0	024701	SPKR MIKE UNIT -05	ON	1.73	10	AC	
	024702	SPKR MIKE UNIT-MID DK	ON	1.76	11	AC	
	023101	TV CAM HTR-FWD PLB	ON	4.98	11	OT	
	023102	TV CAM HTR-AFT PLB	ON	4.97	10	OT	
	023103	TV CAM HTR-KEEL BAY	ON	4.97	15	OT	
	028201	PAN TLT HTR-FWD BAY	ON	2.05	11	OT	
	028202	PAN TLT HTR-AFT BAY	ON	2.05	10	OT	
	028203	PAN TLT HTR-KEEL BAY	ON	2.05	15	OT	
	037301	ACA =1	CHANGED TO	13.17	16	AC	
	037302	ACA =2/3	CHANGED TO	26.58	17	AC	
	037303	ACA =4/5	CHANGED TO	23.96	18	AC	
	037401	ANNUN 1	CHANGED TO	2.83	16	AC	
	037402	ANNUN 2/3	CHANGED TO	5.29	17	AC	
	037403	ANNUN 4/5	CHANGED TO	4.46	18	AC	
	050910	WOBND RCDR (MARS)	OFF	.00	12	AC	
	053500	IECH ELECTRONICS	ON NO POWER	.00	98	OT	
	054700	IECH CNTL HTRS	ON NO POWER	.00	98	OT	
	062001	PROX SNSR EL PKG =1	OFF	.00	217	A1	
	062002	PROX SNSR EL PKG =2	OFF	.00	214	A2	
	062401	LOAD CNTL ASSY FWD1	CHANGED TO	23.36	32	W1	
	062402	LOAD CNTL ASSY FWD2	CHANGED TO	25.51	33	W2	
	062403	LOAD CNTL ASSY FWD3	CHANGED TO	25.14	34	W3	
	062501	LOAD CNTL ASSY AFT1	CHANGED TO	70.33	84	F4	
	062502	LOAD CNTL ASSY AFT2	CHANGED TO	70.80	85	F5	
	062503	LOAD CNTL ASSY AFT3	CHANGED TO	77.73	86	F6	
	062601	PCA FWD =1	CHANGED TO	93.79	22	W1	
	062602	PCA FWD =2	CHANGED TO	39.52	23	W2	
	062603	PCA FWD =3	CHANGED TO	43.47	24	W3	
	062701	PCA MID =1	CHANGED TO	39.07	47	FM	
	062702	PCA MID =2	CHANGED TO	47.48	48	FM	

Figure 6.3-1. - Continued

062703	PCA MID = 3	CHANGED TO	32.35	49	FM
062801	PCA AFT = 1	CHANGED TO	28.94	72	F4
062802	PCA AFT = 2	CHANGED TO	28.32	73	F5
062803	PCA AFT = 3	CHANGED TO	25.94	74	F6
062804	PCA AFT = 4	CHANGED TO	25.72	60	F4
062805	PCA AFT = 5	CHANGED TO	30.06	61	F5
062806	PCA AFT = 6	CHANGED TO	19.05	62	F6
210101	VAP ISO VLV 1 LT POD	OFF	.00	75	OT
210102	VAP ISO VLV 2 LT POD	OFF	.00	76	OT
210201	HE ISO VLV A LFT POD	OFF	.00	75	OT
210202	HE ISO VLV B LFT POD	OFF	.00	76	OT
210301	VAP ISO VLV 1 RT POD	OFF	.00	75	OT
210302	VAP ISO VLV 2 RT POD	OFF	.00	77	OT
210401	HE ISO VLV A RGT POD	OFF	.00	75	OT
210402	HE ISO VLV B RGT POD	OFF	.00	77	OT
210801	LP PTH ACT GMBL BURN	OFF	.00	75	OT
210802	LP YAW ACT GMBL BURN	OFF	.00	75	OT
210901	RP PTH ACT GMBL BURN	OFF	.00	77	OT
210902	RP YAW ACT GMBL BURN	OFF	.00	77	OT
212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	9.13	78	OT
212402	QUAN GAGE TOT-FP-OPR	CHANGED TO	9.13	80	OT
212501	ENG PRESU V COIL 1LP	OFF	.00	84	OT
212502	ENG PRESU V COIL 2LP	OFF	.00	85	OT
212601	ENG PRESU V COIL 1RP	OFF	.00	86	OT
212602	ENG PRESU V COIL 2RP	OFF	.00	84	OT
212701	ENG CTL V 1 COIL 1LP	OFF	.00	84	OT
212702	ENG CTL V 1 COIL 2LP	OFF	.00	85	OT
212801	ENG CTL V 2 COIL 1LP	OFF	.00	84	OT
212802	ENG CTL V 2 COIL 2LP	OFF	.00	85	OT
212901	ENG CTL V 1 COIL 1PP	OFF	.00	86	OT
212902	ENG CTL V 1 COIL 2RP	OFF	.00	84	OT
213001	ENG CTL V 2 COIL 1RP	OFF	.00	86	OT
213002	ENG CTL V 2 COIL 2RP	OFF	.00	84	OT
215101	GSE SR PN HT A-43-LP	ON	6.00	72	OT
215112	RCS HSNH HT A1-41-LP	ON	12.88	72	OT
215113	RCS HSNH HT A2-41-LP	ON	11.12	72	OT
215301	GSE SR PN HT A-44-RP	ON	6.00	73	OT
215312	RCS HSNH HT A1-42-RP	ON	12.88	73	OT
215313	RCS HSNH HT A2-42-RP	ON	11.12	73	OT
217301	XFD OX/FU FLXL HTA-L	CHANGED TO	5.00	72	OT
217303	XFD OX/FU FLXL HTA-R	CHANGED TO	5.00	72	OT
217101	XFD OX/FU LNE HT-A-L	CHANGED TO	16.00	72	OT
217103	XFD OX/FU LNE HT-A-R	CHANGED TO	16.00	72	OT
217105	XFD OX/FU LNE HT-A-C	CHANGED TO	20.00	72	OT
217201	FU HIPT BLDLN HT-A-A	CHANGED TO	12.00	72	OT
217203	FU HIPT BLDLN HT-A-M	CHANGED TO	5.00	72	OT
217301	OX HIPT BLDLN HT-A-A	CHANGED TO	12.00	72	OT
217303	OX HIPT BLDLN HT-A-M	CHANGED TO	5.00	72	OT
217401	LOFT OXFU BPLN HTA-L	CHANGED TO	3.00	72	OT
217403	LOFT OXFU BPLN HTA-R	CHANGED TO	3.00	72	OT
220604	HE OX ISO V R FWD-CL	ON	35.43	23	OT
220608	HE FU ISO V R FWD-CL	ON	35.43	23	OT
220704	HE OX IS V R LAFT-CL	ON	36.46	77	OT
220708	HE FU IS V R LAFT-CL	ON	36.46	77	OT
220804	HE OX IS V R RAFT-CL	ON	36.47	76	OT
220808	HE FU IS V R RAFT-CL	ON	36.47	76	OT
225208	AFT RCS HT-ENG R10+Z	ON	1.00	85	OT

Figure 6.3-1. - Continued

225209	AFT RCS HT-FNG R2U+2	ON	1.00	84	OT
225211	AFT RCS HT-FNG R4U+2	ON	1.00	86	OT
225212	AFT RCS HT-FNG R1A+X	ON	.60	85	OT
225213	AFT RCS HT-FNG R3A+X	ON	2.00	86	OT
225308	AFT RCS HT-FNG L1U+2	ON	1.00	85	OT
225309	AFT PCS HT-FNG L2U+2	ON	1.00	84	OT
225311	AFT RCS HT-FNG L4U+2	ON	1.00	86	OT
225312	AFT RCS HT-FNG L1A+X	ON	.60	85	OT
225313	AFT RCS HT-FNG L3A+X	ON	2.00	86	OT
225501	AFT VRN HT-FNG R5D-Z	ON	.80	86	OT
225502	AFT VRN HT-FNG R5R-Y	ON	4.00	86	OT
225503	AFT VRN HT-FNG L5D-Z	ON	.80	86	OT
225504	AFT VRN HT-FNG L5L+Y	ON	4.00	86	OT
305602	H2O NOZ 3APPEL HTR B	ON	2.80	49	OT
305702	H2O NOZ ORIFICE HT B	ON	22.40	49	OT
325201	FUEL FEEDLINE HTR 1A	ON	12.29	84	OT
325202	FUEL FEEDLINE HTR 1B	OFF	.00	85	OT
325203	FUEL FEEDLINE HTR 2A	ON	14.71	85	OT
325204	FUEL FEEDLINE HTR 2B	OFF	.00	86	OT
325205	FUEL FEEDLINE HTR 3A	ON	8.00	86	OT
325206	FUEL FEEDLINE HTR 3B	OFF	.00	84	OT
325301	FUEL SERVLIN HTR 1A	ON	11.00	84	OT
325302	FUEL SERVLIN HTR 1B	OFF	.00	85	OT
325303	FUEL SERVLIN HTR 2A	ON	8.08	85	OT
325304	FUEL SERVLIN HTR 2B	OFF	.00	86	OT
325305	FUEL SERVLIN HTR 3A	ON	10.00	86	OT
325306	FUEL SERVLIN HTR 3B	OFF	.00	84	OT
325401	FUEL DRN LINE HTR 1A	ON	6.53	84	OT
325402	FUEL DRN LINE HTR 1B	OFF	.00	85	OT
325403	FUEL DRN LINE HTR 2A	ON	8.47	85	OT
325404	FUEL DRN LINE HTR 2B	OFF	.00	86	OT
325405	FUEL DRN LINE HTR 3A	ON	5.00	86	OT
325406	FUEL DRN LINE HTR 3B	OFF	.00	84	OT
325801	APU 1 PRI H2O HTR 1A	CHANGED TO	9.90	75	OT
325803	APU 2 PRI H2O HTR 1A	CHANGED TO	2.87	76	OT
325805	APU 3 PRI H2O HTR 1A	CHANGED TO	9.38	77	OT
325901	APU 1 SEC H2O HTR 2A	CHANGED TO	10.53	75	OT
325903	APU 2 SEC H2O HTR 2A	CHANGED TO	4.79	76	OT
325905	APU 3 SEC H2O HTR 2A	CHANGED TO	4.79	77	OT
326301	GG H2O TK LN HT 504A	CHANGED TO	4.37	75	OT
326303	GG H2O TK LN HT 503A	CHANGED TO	7.94	77	OT
406000	VACUUM VNT NOZ HTR	ON	11.40	5	OT
408107	PRI FWTR LN HTA-TS5	ON	2.00	84	OT
408201	SEC FWTR LN HTA-TS11	OFF	.00	86	OT
408203	SEC FWTR LN HTA-TS12	OFF	.00	86	OT
408205	SEC FWTR LN HTA-TS13	OFF	.00	49	OT
408207	SEC FWTR LN HTA-TS3	CHANGED TO	4.00	86	OT
505301	WSB TK/BOILER HTR 1A	OFF	.00	65	OT
505303	WSB TK/BOILER HTR 2A	OFF	.00	63	OT
505305	WSB TK/BOILER HTR 3A	OFF	.00	64	OT

-- TOTAL SOURCE POWER IS NOW 22.61 KW --

000:47:21.3

220604	HE OX ISO V B FWD-CL	OFF	.00	23	OT
220608	HE FU ISO V B FWD-CL	OFF	.00	23	OT
220704	HE OX IS V B LAFT-CL	OFF	.00	77	OT
220708	HE FU IS V B LAFT-CL	OFF	.00	77	OT

Figure 6.3-1. - Continued

	220804	HE OX IS V B RAFT-CL	OFF	.00	76	OT
	220808	HE FU IS V B RAFT-CL	OFF	.00	76	OT
-- TOTAL SOURCE POWER IS NOW 22.35 KW --						
000:47:50.0	213301	ENGINE PURGE VLVE-LP	ON	62.99	84	OT
	213302	ENGINE PURGE VLVE-RP	ON	63.03	96	OT
-- TOTAL SOURCE POWER IS NOW 22.51 KW --						
000:47:52.0	213301	ENGINE PURGE VLVE-LP	OFF	.00	84	OT
	213302	ENGINE PURGE VLVE-RP	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 22.38 KW --						
000:55:00.0	033134	PANEL LIGHTS - MS	ON	21.90	218	AC
	033135	PANEL LIGHTS - OS/PS	ON	210.80	219	AC
	033204	INSTR LTS - OS	ON	17.65	213	AC
	033302	NUMERIC LIGHTS-OS	ON	26.14	216	AC
	034301	PAYLOAD STA FLD LT	ON	8.13	10	AC
	034302	MISSION STA FLD LT	ON	8.54	15	AC
-- TOTAL SOURCE POWER IS NOW 22.70 KW --						
000:57:21.0	021501	S-80 PREAMP 1-SBY	OFF	.00	33	W3
	021502	S-80 PREAMP 2-OPR	OFF	.00	34	W3
	401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
-- TOTAL SOURCE POWER IS NOW 22.93 KW --						
001:02:21.0	040403	PAYLD RECORDER-REPLY	CHANGED TO	5.21	30	W1
-- TOTAL SOURCE POWER IS NOW 22.88 KW --						
001:03:21.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:07:21.0	024801	AUDIO INTF UNIT-PLT	OFF	.00	42	AC
	024802	AUDIO INTF UNIT-CHDR	OFF	.00	41	AC
	032702	CRT DU = 2 - RF	OFF	.00	23	HX
	032704	CRT DU = 4 - MSS	ON	86.52	24	HX
	032802	DEU = 2	OFF	.00	23	HX
	070103	GPC CPU#3-RUN	CHANGED TO	308.00	31	A3
	070105	GPC CPU#5-RUN	CHANGED TO	308.00	31	A2
	070203	GPC IOP#3-RUN	CHANGED TO	313.00	31	A3
	070205	GPC IOP#5-RUN	CHANGED TO	313.00	31	A2
	071501	ENG INTREF UN = 1	OFF	.00	66	F4
	071502	ENG INTREF UN = 2	OFF	.00	67	F5
	071503	ENG INTREF UN = 3	OFF	.00	68	F6
	071602	DBIA#1 SRB-HI RATE	OFF	.00	78	F4
	071604	DBIA#2 SRB-HI RATE	OFF	.00	78	F5
-- TOTAL SOURCE POWER IS NOW 22.14 KW --						
001:07:35.0	060301	MEC=1-AVERAGE	OFF	.00	78	F4
	060302	MEC=2-AVERAGE	OFF	.00	79	F5

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Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 21.97 KW --

001:17:21.0

053701	MID DECK PANEL LT =1	ON	6.69	8	AC
053702	MID DECK PANEL LT =2	ON	6.58	4	AC
050701	WB FDM 1A (FME1)-FWD	CHANGED TO	13.15	12	DW
050702	WB FDM 1B (FME1)-FWD	CHANGED TO	13.15	12	DW
050703	WB FDM 2A (FME2)-FWD	OFF	.00	12	DW
050704	WB FDM 2B (FME2)-FWD	OFF	.00	12	DW
050705	WB FDM 3A (FME3)-FWD	OFF	.00	12	DW
050706	WB FDM 3B (FME3)-FWD	OFF	.00	12	DW
050801	WDBND FDM UN1-MID L1	OFF	.00	47	D1
050802	WDBND FDM UN1-MID L1	OFF	.00	48	D1
050803	WDBND FDM UN2-MID L1	OFF	.00	47	D1
050804	WDBND FDM UN2-MID L1	OFF	.00	48	D1
050805	WDBND FDM UN1-MID R2	OFF	.00	47	D2
050806	WDBND FDM UN1-MID R2	OFF	.00	48	D2
050807	WDBND FDM UN2-MID R2	OFF	.00	47	D2
050808	WDBND FDM UN2-MID R2	OFF	.00	48	D2
050809	WDBND FDM UN1-MID L3	OFF	.00	47	D3
050810	WDBND FDM UN1-MID L3	OFF	.00	47	D3
050811	WDBND FDM UN2-MID L3	OFF	.00	47	D3
050812	WDBND FDM UN2-MID L3	OFF	.00	47	D3
050813	WDBND FDM UN2-MID L3	OFF	.00	47	D3
051012	WBSC FWD (A131)-ASCT	OFF	.00	12	DW
051020	WBSC FWD (A132)-WBM	OFF	.00	12	DW
051031	WBSC FWD (A133)-ASCT	OFF	.00	12	DW
051032	WBSC FWD (A133)-WBM	OFF	.00	12	DW
051041	WBSC FWD (A134)-WBM	OFF	.00	12	DW
051111	WBSC LM1 (A135)-WBM	OFF	.00	48	D1
051112	WBSC LM1 (A135)-WBM	OFF	.00	47	D1
051121	WBSC LM1 (A136)-WBM	OFF	.00	48	D1
051122	WBSC LM1 (A136)-WBM	OFF	.00	47	D1
051131	WBSC LM1 (A137)-WBM	OFF	.00	48	D1
051132	WBSC LM1 (A137)-WBM	OFF	.00	47	D1
051141	WBSC LM1 (A138)-WBM	OFF	.00	48	D1
051142	WBSC LM1 (A138)-WBM	OFF	.00	47	D1
051211	WBSC RM2 (A139)-WBM	OFF	.00	48	D2
051212	WBSC RM2 (A139)-WBM	OFF	.00	47	D2
051221	WBSC RM2 (A140)-WBM	OFF	.00	48	D2
051222	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051231	WBSC RM2 (A141)-WBM	OFF	.00	48	D2
051232	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051241	WBSC RM2 (A142)-WBM	OFF	.00	48	D2
051242	WBSC RM2 (A142)-WBM	OFF	.00	47	D2
051311	WBSC LM3 (A143)-ASCT	OFF	.00	47	D3
051321	WBSC LM3 (A144)-ASCT	OFF	.00	47	D3
051322	WBSC LM3 (A144)-WBM	OFF	.00	47	D3
051331	WBSC LM3 (A145)-ASCT	OFF	.00	47	D3
051340	WBSC LM3 (A146)-ASCT	OFF	.00	47	D3
051401	DC-DC XDUCEPS-FWD	OFF	.00	47	OT
051402	DC-DC XDUCEPS-FWD	OFF	.00	12	OT
051403	DC-DC XDUCEPS-FWD	OFF	.00	47	OT
051404	DC-DC XDUCEPS-MID L1	OFF	.00	47	OT
051405	DC-DC XDUCEPS-MID L1	OFF	.00	47	OT
051406	DC-DC XDUCEPS-MID L1	OFF	.00	48	OT
051407	DC-DC XDUCEPS-MID R2	OFF	.00	47	OT
051408	DC-DC XDUCEPS-MID R2	OFF	.00	47	OT
051409	DC-DC XDUCEPS-MID R2	OFF	.00	48	OT

Figure 6.3-1. - Continued

	051411	DC-DC XDUCEPS-MID L3	OFF			
	051412	DC-DC XDUCEPS-MID L3	OFF	.00	47	OT
	051523	SGSC FWD (A151)-WBM	OFF	.00	47	OT
	051524	SGSC FWD (A151)-WBM	OFF	.00	12	OW
	051612	SGSC ML1 (A162)-WBM	OFF	.00	12	OW
	051613	SGSC ML1 (A162)-WBM	OFF	.00	47	D1
	051622	SGSC ML1 (A163)-WBM	OFF	.00	48	D1
	051623	SGSC ML1 (A163)-WBM	OFF	.00	48	D1
	051632	SGSC MR2 (A169)-WBM	OFF	.00	47	D1
	051633	SGSC MR2 (A169)-WBM	OFF	.00	48	D2
	051662	SGSC ML3 (A166)-WBM	OFF	.00	47	D2
	051672	SGSC ML3 (A167)-WBM	OFF	.00	47	D3
	521001	STTRKR DR MTR 1 (-Y)	ON	43.17	201	OT
	521002	STTRKR DR MTR 2 (-Y)	ON	43.14	202	OT
	521003	STTRKR DR MTR 1 (-Z)	ON	43.38	203	OT
	521004	STTRKR DR MTR 2 (-Z)	ON	43.14	202	OT
-- TOTAL SOURCE POWER IS NOW 21.22 KW --						
001:18:21.0	521001	STTRKR DR MTR 1 (-Y)	OFF	.00	201	OT
	521002	STTRKR DR MTR 2 (-Y)	OFF	.00	202	OT
	521003	STTRKR DR MTR 1 (-Z)	OFF	.00	203	OT
	521004	STTRKR DR MTR 2 (-Z)	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 21.04 KW --						
001:25:00.0	020101	B+W TV MONITOR #1	ON	34.43	10	HX
	020102	B+W TV MONITOR #2	ON	34.87	11	HX
	020200	REMOTE CONTROL UNIT	ON	39.35	10	HX
	020210	VIDEO SWITCHING UNIT	ON	19.68	10	HX
	020401	TV CAM B+W FWD PLB	ON	12.95	11	OT
	020402	TV CAM COE AFT PLB	ON	12.79	10	OT
	020405	TV CAM B+W KEEL BAY	ON	13.50	15	OT
	020411	B+W CAM LN FWD-SRY	ON	2.42	11	OT
	020412	TV CAM AFT CLR LN-SB	ON	5.31	10	OT
	020415	B+W CAM LNC KEEL-SBY	ON	2.52	15	OT
	020501	PAN TILT ASY FWD SBY	ON	1.30	11	OT
	020502	PAN TILT ASY AFT SRY	ON	1.28	10	OT
	020503	PAN TLT ASY KEEL-SBY	ON	1.35	15	OT
	020600	VIDEO TP RECORD-OPR	ON	29.89	11	AC
	021101	S-BAND FM XMITR #1	CHANGED TO	34.87	33	W3
	021203	S-BND FM SIG PRO-OPB	CHANGED TO	2.49	36	A3
	034801	PLB FLDLT ELEC ASY 1	ON	190.64	44	FM
	034802	PLB FLDLT ELEC ASY 2	ON	185.04	87	FM
	034901	PLB FLD FWD PORT EA1	ON	144.14	47	OT
	034902	PLB FLD FWD STRD EA2	ON	146.79	48	OT
	034903	PLB FLD MID PORT EA1	ON	146.79	48	OT
	034904	PLB FLD MID STRD EA2	ON	147.78	49	OT
	034905	PLB FLD AFT PORT EA2	ON	147.78	49	OT
	034906	PLB FLD AFT STRD EA1	ON	144.14	47	OT
	523703	PBD CTRLN LCH5-B MT1	ON	196.82	201	OT
	523704	PBD CTRLN LCH5-B MT2	ON	197.72	203	OT
-- TOTAL SOURCE POWER IS NOW 23.04 KW --						
001:25:20.0	523703	PBD CTRLN LCH5-B MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-B MT2	OFF	.00	203	OT

Figure 6.3-1. - Continued

		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:26:00.0	523703	PBD CTRLN LCH5-8 MT1	ON	196.82	201	OT
	523704	PBD CTRLN LCH5-8 MT2	ON	197.72	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.04 KW --				
001:26:20.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:27:00.0	523705	PBD CTRLN LCH9-12 M1	ON	196.82	201	OT
	523706	PBD CTRLN LCH9-12 M2	ON	197.72	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.04 KW --				
001:27:20.0	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:28:00.0	523705	PBD CTRLN LCH9-12 M1	ON	196.82	201	OT
	523706	PBD CTRLN LCH9-12 M2	ON	197.72	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.04 KW --				
001:28:20.0	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:29:00.0	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT
	523702	PBD CTRLN LCH1-4 MT2	ON	197.72	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.04 KW --				
001:29:20.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT
	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:30:00.0	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT
	523702	PBD CTRLN LCH1-4 MT2	ON	197.72	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.04 KW --				
001:30:20.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT
	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:31:00.0	523707	PBD CTRLN LH13-16 M1	ON	197.72	203	OT
	523708	PBD CTRLN LH13-16 M2	ON	196.08	202	OT
		-- TOTAL SOURCE POWER IS NOW 23.03 KW --				

Figure 6.3-1. - Continued

001:31:20.0	523707 523708	PBD CTRLN LH13-16 M1 PBD CTRLN LH13-16 M2	OFF OFF	.00 .00	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:32:00.0	523707 523708	PBD CTRLN LH13-16 M1 PBD CTRLN LH13-16 M2	ON ON	197.72 196.08	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 23.03 KW --						
001:32:20.0	523707 523708	PBD CTRLN LH13-16 M1 PBD CTRLN LH13-16 M2	OFF OFF	.00 .00	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:33:00.0	523603 523604	PBD RH FD BKHD LCH 1 PBD RH FD BKHD LCH 2	ON ON	221.92 220.92	201 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 23.08 KW --						
001:33:30.0	523603 523604	PBD RH FD BKHD LCH 1 PBD RH FD BKHD LCH 2	OFF OFF	.00 .00	201 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:34:10.0	523603 523604	PBD RH FD BKHD LCH 1 PBD RH FD BKHD LCH 2	ON ON	221.92 220.92	201 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 23.08 KW --						
001:34:40.0	523603 523604	PBD RH FD BKHD LCH 1 PBD RH FD BKHD LCH 2	OFF OFF	.00 .00	201 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:35:20.0	523607 523608	PBD RH AF BKHD LCH 1 PBD RH AF BKHD LCH 2	ON ON	222.94 220.92	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 23.08 KW --						
001:35:50.0	523607 523608	PBD RH AF BKHD LCH 1 PBD RH AF BKHD LCH 2	OFF OFF	.00 .00	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:36:30.0	523607 523608	PBD RH AF BKHD LCH 1 PBD RH AF BKHD LCH 2	ON ON	222.94 220.92	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 23.08 KW --						
001:37:00.0	523607 523608	PBD RH AF BKHD LCH 1 PBD RH AF BKHD LCH 2	OFF OFF	.00 .00	203 202	0T 0T
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
001:37:40.0	523601	PBD LH FD BKHD LCH 1	ON	221.92	201	0T

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Figure 6.3-1. - Continued

	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	OT
		-- TOTAL SOURCE POWER IS NOW 23.08 KW --				
001:38:10.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	OT
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:38:50.0	523601	PBD LH FD BKHD LCH 1	ON	221.92	201	OT
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	OT
		-- TOTAL SOURCE POWER IS NOW 23.08 KW --				
001:39:20.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	OT
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:40:00.0	523605	PBD LH AF BKHD LCH 1	ON	221.92	201	OT
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.10 KW --				
001:40:30.0	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	OT
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
475 001:41:10.0	523605	PBD LH AF BKHD LCH 1	ON	221.92	201	OT
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.10 KW --				
001:41:40.0	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	OT
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:43:00.0	523703	PBD CTRLN LCH5-8 MT1	ON	197.68	201	OT
	523704	PBD CTRLN LCH5-8 MT2	ON	198.69	203	OT
	523705	PBD CTRLN LCH9-12 M1	ON	197.68	201	OT
	523706	PBD CTRLN LCH9-12 M2	ON	198.69	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.48 KW --				
001:43:20.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT
	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --				
001:44:00.0	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT
	523702	PBD CTRLN LCH1-4 MT2	ON	198.69	203	OT
	523707	PBD CTRLN LCH13-16 M1	ON	198.69	203	OT
	523708	PBD CTRLN LCH13-16 M2	ON	196.08	202	OT

Figure 6.3-1. - Continued

		Figure 6.3-1. - Continued					
		-- TOTAL SOURCE POWER IS NOW 23.47 KW --					
001:44:29.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT	
	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT	
	523707	PBD CTRLN LH13-16 M1	OFF	.00	203	OT	
	523708	PBD CTRLN LH13-16 M2	OFF	.00	202	OT	
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --					
001:45:00.0	523603	PBD RH FD BKHD LCH 1	ON	221.92	201	OT	
	523604	PBD RH FD BKHD LCH 2	ON	220.92	202	OT	
	523607	PBD RH AF BKHD LCH 1	ON	222.94	203	OT	
	523608	PBD RH AF BKHD LCH 2	ON	220.92	202	OT	
		TOTAL SOURCE POWER IS NOW 23.56 KW					
001:45:30.0	523603	PBD RH FD BKHD LCH 1	OFF	.00	201	OT	
	523604	PBD RH FD BKHD LCH 2	OFF	.00	202	OT	
	523607	PBD RH AF BKHD LCH 1	OFF	.00	203	OT	
	523608	PBD RH AF BKHD LCH 2	OFF	.00	202	OT	
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --					
001:46:10.0	521701	PLB RH DOOR DRV MTR1	ON	528.00	201	OT	
	521702	PLB RH DOOR DRV MTR2	ON	522.86	202	OT	
		TOTAL SOURCE POWER IS NOW 23.74 KW					
476 001:47:13.0	521701	PLB RH DOOR DRV MTR1	OFF	.00	201	OT	
	521702	PLB RH DOOR DRV MTR2	OFF	.00	202	OT	
		-- TOTAL SOURCE POWER IS NOW 22.61 KW --					
001:47:21.0	010302	STAR TRACKER -Y AXIS	ON	16.61	17	OT	
	030103	ADT =3 AFT	ON	17.33	21	AC	
	032203	DDU =3 AFT	ON	120.00	21	HX	
		-- TOTAL SOURCE POWER IS NOW 22.77 KW --					
001:52:13.0	521701	PLB RH DOOR DRV MTR1	ON	528.00	201	OT	
	521702	PLB RH DOOR DRV MTR2	ON	522.88	202	OT	
		TOTAL SOURCE POWER IS NOW 23.09 KW					
001:53:16.0	521701	PLB RH DOOR DRV MTR1	OFF	.00	201	OT	
	521702	PLB RH DOOR DRV MTR2	OFF	.00	202	OT	
		-- TOTAL SOURCE POWER IS NOW 22.77 KW --					
001:53:56.0	523603	PBD RH FD BKHD LCH 1	ON	221.92	201	OT	
	523604	PBD RH FD BKHD LCH 2	ON	220.92	202	OT	
	523607	PBD RH AF BKHD LCH 1	ON	222.94	203	OT	
	523608	PBD RH AF BKHD LCH 2	ON	220.92	202	OT	
		TOTAL SOURCE POWER IS NOW 23.72 KW					

Figure 6.3-1. - Continued

001:54:26.0	523603	PBD RH FD BKHD LCH 1	OFF	.00	201	OT
	523604	PBD RH FD BKHD LCH 2	OFF	.00	202	OT
	523607	PBD RH AF BKHD LCH 1	OFF	.00	203	OT
	523608	PBD RH AF BKHD LCH 2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
001:55:06.0	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT
	523702	PBD CTRLN LCH1-4 MT2	ON	198.69	203	OT
	523707	PBD CTRLN LH13-16 M1	ON	198.69	203	OT
	523708	PBD CTRLN LH13-16 M2	ON	196.08	202	OT
-- TOTAL SOURCE POWER IS NOW 23.63 KW --						
001:55:26.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT
	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT
	523707	PBD CTRLN LH13-16 M1	OFF	.00	203	OT
	523708	PBD CTRLN LH13-16 M2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
001:56:06.0	523703	PBD CTRLN LCH5-8 MT1	ON	197.68	201	OT
	523704	PBD CTRLN LCH5-8 MT2	ON	198.69	203	OT
	523705	PBD CTRLN LCH9-12 M1	ON	197.68	201	OT
	523706	PBD CTRLN LCH9-12 M2	ON	198.69	203	OT
-- TOTAL SOURCE POWER IS NOW 23.64 KW --						
477 001:56:26.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT
	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
001:57:06.0	523703	PBD CTRLN LCH5-8 MT1	ON	197.68	201	OT
	523704	PBD CTRLN LCH5-8 MT2	ON	198.69	203	OT
	523705	PBD CTRLN LCH9-12 M1	ON	197.68	201	OT
	523706	PBD CTRLN LCH9-12 M2	ON	198.69	203	OT
-- TOTAL SOURCE POWER IS NOW 23.64 KW --						
001:57:26.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT
	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
001:58:06.0	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT
	523702	PBD CTRLN LCH1-4 MT2	ON	198.69	203	OT
	523707	PBD CTRLN LH13-16 M1	ON	198.69	203	OT
	523708	PBD CTRLN LH13-16 M2	ON	196.08	202	OT
-- TOTAL SOURCE POWER IS NOW 23.63 KW --						
001:58:26.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT

Figure 6.3-1. - Continued

	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT
	523707	PBD CTRLN LH13-16 M1	OFF	.00	203	OT
	523708	PBD CTRLN LH13-16 M2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
001:59:06.0	523603	PBD RH FD BKHD LCH 1	ON	221.92	201	OT
	523604	PBD RH FD BKHD LCH 2	ON	220.92	202	OT
	523607	PBD RH AF BKHD LCH 1	ON	222.94	203	OT
	523608	PBD RH AF BKHD LCH 2	ON	220.92	202	OT
-- TOTAL SOURCE POWER IS NOW 23.72 KW --						
001:59:36.0	523603	PBD RH FD BKHD LCH 1	OFF	.00	201	OT
	523604	PBD RH FD BKHD LCH 2	OFF	.00	202	OT
	523607	PBD RH AF BKHD LCH 1	OFF	.00	203	OT
	523608	PBD RH AF BKHD LCH 2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
002:00:16.0	521701	PLB RH DOOR DRV MTR1	ON	528.00	201	OT
	521702	PLB RH DOOR DRV MTR2	ON	522.88	202	OT
-- TOTAL SOURCE POWER IS NOW 23.89 KW --						
002:01:19.0	521701	PLB RH DOOR DRV MTR1	OFF	.00	201	OT
	521702	PLB RH DOOR DRV MTR2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
002:01:59.0	523601	PBD LH FD BKHD LCH 1	ON	223.22	201	OT
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	OT
	523605	PBD LH AF BKHD LCH 1	ON	223.22	201	OT
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	OT
-- TOTAL SOURCE POWER IS NOW 23.74 KW --						
002:02:29.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	OT
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	OT
	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	OT
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
002:03:09.0	521601	PLB LH DOOR DRV MTR1	ON	522.88	202	OT
	521602	PLB LH DOOR DRV MTR2	ON	530.83	203	OT
-- TOTAL SOURCE POWER IS NOW 23.90 KW --						
002:04:12.0	521601	PLB LH DOOR DRV MTR1	OFF	.00	202	OT
	521602	PLB LH DOOR DRV MTR2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 22.77 KW --						
002:09:12.0	521601	PLB LH DOOR DRV MTR1	ON	522.88	202	OT
	521602	PLB LH DOOR DRV MTR2	ON	530.83	203	OT

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Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 23.90 KW --								
002:10:15.0	521601	PLB LH DOOR DRV MTR1	OFF	.00	202	01		
	521602	PLB LH DOOR DRV MTR2	OFF	.00	203	01		
-- TOTAL SOURCE POWER IS NOW 22.77 KW --								
002:10:55.0	523601	PBD LH FD BKHD LCH 1	ON	223.22	201	01		
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	01		
	523605	PBD LH AF BKHD LCH 1	ON	223.22	201	01		
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	01		
-- TOTAL SOURCE POWER IS NOW 23.74 KW --								
002:11:25.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	01		
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	01		
	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	01		
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	01		
-- TOTAL SOURCE POWER IS NOW 22.77 KW --								
002:16:25.0	523601	PBD LH FD BKHD LCH 1	ON	223.22	201	01		
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	01		
	523605	PBD LH AF BKHD LCH 1	ON	223.22	201	01		
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	01		
-- TOTAL SOURCE POWER IS NOW 23.74 KW --								
479 002:16:55.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	01		
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	01		
	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	01		
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	01		
-- TOTAL SOURCE POWER IS NOW 22.77 KW --								
002:17:21.0	402630	POT H2O XOVER VL-OP	ON	48.98	6	AC		
	402700	POT H2O GLY SP VL-OP	ON	48.98	6	AC		
-- TOTAL SOURCE POWER IS NOW 22.87 KW --								
002:17:21.2	402630	POT H2O XOVER VL-OP	OFF	.00	6	AC		
	402700	POT H2O GLY SP VL-OP	OFF	.00	6	AC		
-- TOTAL SOURCE POWER IS NOW 22.77 KW --								
002:17:35.0	521601	PLB LH DOOR DRV MTR1	ON	522.88	202	01		
	521602	PLB LH DOOR DRV MTR2	ON	530.93	203	01		
-- TOTAL SOURCE POWER IS NOW 23.90 KW --								
002:18:38.0	521601	PLB LH DOOR DRV MTR1	OFF	.00	202	01		
	521602	PLB LH DOOR DRV MTR2	OFF	.00	203	01		
-- TOTAL SOURCE POWER IS NOW 22.77 KW --								
002:22:00.0	400712	OZ CONTROL VLV-SYS 2	OFF	.00	17	AC		
	523801	RAO LH RT LCH1-6 MTR	ON	81.49	201	01		

Figure 6.3-1. - Continued

523802	RAD LH RT LCH1-6 MT2	ON	81.05	202	OT
523803	RAD LH RT LCH7-12 M1	ON	81.49	201	OT
523804	RAD LH RT LCH7-12 M2	ON	81.63	203	OT
523805	RAD RH RT LCH1-6 MT1	ON	81.49	201	OT
523806	RAD RH RT LCH1-6 MT2	ON	81.05	202	OT
523807	RAD RH RT LCH7-12 M1	ON	81.49	201	OT
523808	RAD RH RT LCH7-12 M2	ON	81.63	203	OT
600301	ESCAPE SUIT VT ASY L	OFF	.00	11	AC
600302	ESCAPE SUIT VT ASY R	OFF	.00	10	AC

-- TOTAL SOURCE POWER IS NOW 23.27 KW --

002:22:26.0	523801	RAD LH RT LCH1-6 MT1	OFF	.00	201	OT
	523802	RAD LH RT LCH1-6 MT2	OFF	.00	202	OT
	523803	RAD LH RT LCH7-12 M1	OFF	.00	201	OT
	523804	RAD LH RT LCH7-12 M2	OFF	.00	203	OT
	523805	RAD RH RT LCH1-6 MT1	OFF	.00	201	OT
	523806	RAD RH RT LCH1-6 MT2	OFF	.00	202	OT
	523807	RAD RH RT LCH7-12 M1	OFF	.00	201	OT
	523808	RAD RH RT LCH7-12 M2	OFF	.00	203	OT

-- TOTAL SOURCE POWER IS NOW 22.56 KW --

002:23:06.0	523901	RAD LH DPLY DRV MTR1	ON	81.26	201	OT
	523902	RAD LH DPLY DRV MTR2	ON	81.63	203	OT
	523903	RAD RH DPLY DRV MTR1	ON	81.26	201	OT
	523904	RAD RH DPLY DRV MTR2	ON	81.63	203	OT

-- TOTAL SOURCE POWER IS NOW 22.92 KW --

002:23:49.0	523901	RAD LH DPLY DRV MTR1	OFF	.00	201	OT
	523902	RAD LH DPLY DRV MTR2	OFF	.00	203	OT
	523903	RAD RH DPLY DRV MTR1	OFF	.00	201	OT
	523904	RAD RH DPLY DRV MTR2	OFF	.00	203	OT

-- TOTAL SOURCE POWER IS NOW 22.56 KW --

002:24:30.0	402901	FREON PMP LP 1-A ASC	CHANGED TO	476.05	201	FP
	402903	FREON PMP LP 2-A ASC	CHANGED TO	478.10	203	FP
	403001	RAD FLOW CNTLR A-LP1	ON	2.88	17	OT
	403002	RD FL CTR A-LP1 FALT	ON	1.56	17	OT
	403004	RD FL CTR 3-LP1 FALT	ON	1.56	16	OT
	403101	RAD FLOW CNTLR A-LP2	ON	2.08	17	OT
	403102	RD FL CTR A-LP2 FALT	ON	1.56	17	OT
	403104	RD FL CTR 3-LP2 FALT	ON	1.56	16	OT
	403201	RAD FL CNTL VLV-LP 1	ON	5.82	17	OT
	403202	RAD FL CNTL VLV-LP 2	ON	5.82	17	OT
	403801	FES HI LD PLSR V-PRI	OFF	.00	89	OT
	403811	FES HI LD ISO VL-PPI	OFF	.00	89	OT
	403901	FES TOP'G PLSR V-PRI	CHANGED TO	9.04	89	OT
	403921	TPNS V HLNG COIL-PR	CHANGED TO	3.05	89	OT
	408501	HI LD DUCT HTR1 SEC1	OFF	.00	47	OT
	408601	HI LD DUCT HTR1 SEC2	OFF	.00	47	OT
	408701	HI LD DCT NOZ HT GPI	OFF	.00	47	OT
	409001	TOP'G DUCT HTR1 SEC1	CHANGED TO	48.01	47	OT
	409101	TOP'G DUCT HTR1 SEC2	CHANGED TO	115.98	47	OT
	409201	TOP'G DUCT HTR1 SEC3	CHANGED TO	27.00	84	OT

Figure 6.3-1. - Continued

	409301	TOP'G DUCT HTR1 SEC4	CHANGED TO	27.00	84	OT
	409401	SONIC LFT NOZ HTR 1A	CHANGED TO	11.60	84	OT
	409501	SONIC RHT NOZ HTR 2A	CHANGED TO	11.46	85	OT
		-- TOTAL SOURCE POWER IS NOW 20.68 KW --				
002:24:55.0	021401	S-BND PWR AMP 1-SBY	OFF	.00	23	W3
	021402	S-BND PWR AMP 2-OPR	OFF	.00	24	W3
		-- TOTAL SOURCE POWER IS NOW 20.25 KW --				
002:25:00.0	020101	R+W TV MONITOR #1	OFF	.00	10	HX
	020102	R+W TV MONITOR #2	OFF	.00	11	HX
	020200	REMOTE CONTROL UNIT	OFF	.00	10	HX
	020210	VIDEO SWITCHING UNIT	OFF	.00	10	HX
	020401	TV CAM B+W FWD PLB	OFF	.00	11	OT
	020402	TV CAM COL AFT PLB	OFF	.00	10	OT
	020405	TV CAM B+W KEEL DAY	OFF	.00	15	OT
	020411	B+W CAM LN FWD-SBY	OFF	.00	11	OT
	020412	TV CAM AFT CLR LN-SB	OFF	.00	10	OT
	020415	B+W CAM LWS KEEL-SBY	OFF	.00	15	OT
	020501	PAN TILT ASY FWD SBY	OFF	.00	11	OT
	020502	PAN TILT ASY AFT SBY	OFF	.00	10	OT
	020503	PAN TLT ASY KEEL-SBY	OFF	.00	15	OT
	020600	VIDEO TP RECORD-OPR	OFF	.00	11	AC
	021101	S-BAND FM XMITR #1	CHANGED TO	10.79	33	W3
	021200	S-BND FM SIG PRO-ORB	CHANGED TO	.77	36	A3
		-- TOTAL SOURCE POWER IS NOW 20.00 KW --				
002:35:00.0	402311	FOOD WARMER-OFT PHA	ON	265.56	217	AC
	402312	FOOD WARMER-OFT PHC	ON	272.33	219	AC
		-- TOTAL SOURCE POWER IS NOW 20.58 KW --				
002:52:00.0	033104	PANEL LIGHTS - MS	OFF	.00	218	AC
	033105	PANEL LIGHTS - OS/PS	OFF	.00	219	AC
	033204	INSTR LTS - OS	OFF	.00	213	AC
	033302	NUMERIC LIGHTS-OS	OFF	.00	216	AC
	034301	PAYLOAD STA FLD LT	OFF	.00	10	AC
	034302	MISSION STA FLD LT	OFF	.00	15	AC
	034801	PLB FLDLT ELEC ASY 1	OFF	.00	44	FM
	034802	PLB FLDLT ELEC ASY 2	OFF	.00	87	FM
	034901	PLB FLD FWD PORT EA1	OFF	.00	47	OT
	034902	PLB FLD FWD STBD EA2	OFF	.00	48	OT
	034903	PLB FLD MID PORT EA1	OFF	.00	48	OT
	034904	PLB FLD MID STBD EA2	OFF	.00	49	OT
	034905	PLB FLD AFT PORT EA2	OFF	.00	49	OT
	034906	PLB FLD AFT STBD EA1	OFF	.00	47	OT
		-- TOTAL SOURCE POWER IS NOW 18.91 KW --				
002:59:00.0	305101	G02 PRS LNE HTR AUT	ON	40.70	48	OT
	305201	G02 PRS LNE HTR AUT	ON	51.60	48	OT
		-- TOTAL SOURCE POWER IS NOW 19.00 KW --				

Figure 6.3-1. - Continued

TIME	IDENT	DESCRIPTION	STATUS	POWER (KW)	TEMP (°C)	STATUS
003:15:00.0	300601	FCP1 02 PRS/DUAL FDV	ON	10.90	47	OT
	300701	FCP1 02 PURGE VALVE	ON	10.90	47	OT
-- TOTAL SOURCE POWER IS NOW				19.03 KW		
003:17:00.0	300601	FCP1 02 PRS/DUAL FDV	OFF	.00	47	OT
	300602	FCP2 02 PRS/DUAL FDV	ON	11.01	48	OT
	300701	FCP1 02 PURGE VALVE	OFF	.00	47	OT
	300702	FCP2 02 PURGE VALVE	ON	11.01	48	OT
-- TOTAL SOURCE POWER IS NOW				19.03 KW		
003:17:21.0	408105	PRI FWTR LN HTA-TS7	ON	6.24	47	OT
	408205	SEC FWTR LN HTA-TS13	ON	7.25	49	OT
-- TOTAL SOURCE POWER IS NOW				19.04 KW		
003:19:00.0	300602	FCP2 02 PRS/DUAL FDV	OFF	.00	48	OT
	300603	FCP3 02 PRS/DUAL FDV	ON	11.06	49	OT
	300702	FCP2 02 PURGE VALVE	OFF	.00	48	OT
	300703	FCP3 02 PURGE VALVE	ON	11.06	49	OT
-- TOTAL SOURCE POWER IS NOW				19.04 KW		
003:21:00.0	300603	FCP3 02 PRS/DUAL FDV	OFF	.00	49	OT
	300703	FCP3 02 PURGE VALVE	OFF	.00	49	OT
-- TOTAL SOURCE POWER IS NOW				19.02 KW		
003:27:21.0	010401	ADTA =1	OFF	.00	16	A1
	010402	ADTA =2	OFF	.00	17	A2
	010403	ADTA =3	OFF	.00	18	A1
	010404	ADTA =4	OFF	.00	18	A2
	010901	ASA1 PWR SUP LOG-OPR	OFF	.00	66	F4
	010902	ASA2 PWR SUP LOG-OPR	OFF	.00	67	F5
	010903	ASA3 PWR SUP LOG-OPR	OFF	.00	68	F6
	010904	ASA4 PWR SUP LOG-OPR	OFF	.00	80	F6
	011011	ASA 1 ACTUATORS-OPER	OFF	.00	66	OT
	011012	ASA 2 ACTUATORS-OPER	OFF	.00	67	OT
	011013	ASA 3 ACTUATORS-OPER	OFF	.00	68	OT
	011014	ASA 4 ACTUATORS-OPER	OFF	.00	80	OT
	011301	RGA =1 OPR	OFF	.00	78	FA
	011302	RGA =2 OPR	OFF	.00	64	FA
	011303	RGA =3 OPR	OFF	.00	49	FA
	011304	RGA =4 OPR	OFF	.00	46	FA
	011401	ACCEL ASSY =1 - OPER	OFF	.00	16	A1
	011402	ACCEL ASSY =2 - OPER	OFF	.00	17	A2
	011403	ACCEL ASSY =3 - OPER	OFF	.00	30	A2
	011404	ACCEL ASSY =4 - OPER	OFF	.00	29	A1
	021701	TACAN =1 SEARCH	OFF	.00	213	A1
	021702	TACAN =2 SEARCH	OFF	.00	216	A2
	021703	TACAN =3 SEARCH	OFF	.00	219	A3
	022101	RADAR ALTIMETER =1	OFF	.00	16	W1
	022102	RADAR ALTIMETER =2	OFF	.00	17	W2
	030201	HSI =1	OFF	.00	16	AC
	030202	HSI =2	OFF	.00	17	AC
	030301	AMI =1	OFF	.00	16	AC

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Figure 6.3-1. - Continued

	030302	AMI =2	OFF	.00	17	AC
	030401	ALPHA MACH EL UNIT 1	OFF	.00	16	HX
	030402	ALPHA MACH EL UNIT 2	OFF	.00	17	HX
	030501	AVVI =1	OFF	.00	16	AC
	030502	AVVI =2	OFF	.00	17	AC
	030601	ALT VER VEL EL UN =1	OFF	.00	16	HX
	030602	ALT VER VEL EL UN =2	OFF	.00	17	HX
	030701	TAPE MTR M1 (MPS PR)	OFF	.00	16	AC
	030702	TAPE MTR M2 (MPS PR)	OFF	.00	16	AC
	030703	TAPE MTR M3 (MPS PR)	OFF	.00	16	AC
	030705	TAPE MTR M1 (HYD PR)	OFF	.00	17	AC
	030706	TAPE MTR M2 (HYD QTY)	OFF	.00	17	AC
	030707	TAPE MTR M3 (APU)	OFF	.00	17	AC
	030708	TAPE MTR M4 (APU OIL)	OFF	.00	17	AC
	031300	SPI	OFF	.00	16	AC
-- TOTAL SOURCE POWER IS NOW 17.34 KW --						
003:29:21.0	408203	SEC FWTR LN HTA-TS12	ON	2.25	86	OT
-- TOTAL SOURCE POWER IS NOW 17.34 KW --						
003:32:21.0	522701	BRK/SKID CNTL BOX A	OFF	.00	30	A1
	522702	BRK/SKID CNTL BOX B	OFF	.00	29	A2
-- TOTAL SOURCE POWER IS NOW 17.30 KW --						
003:34:21.0	011601	THC-LH	OFF	.00	19	AC
	011701	RHC-LH	OFF	.00	19	AC
	011702	RHC-RH	OFF	.00	20	AC
	011801	RPTA-LH	OFF	.00	19	AC
	011802	RPTA-RH	OFF	.00	20	AC
	011901	SBTC-LH	OFF	.00	19	AC
	011902	SBTC-RH	OFF	.00	20	AC
-- TOTAL SOURCE POWER IS NOW 17.28 KW --						
003:35:21.0	408103	PRI FWTR LN HTA-TS6	ON	2.78	84	OT
-- TOTAL SOURCE POWER IS NOW 17.29 KW --						
003:47:21.0	010801	ATVC =1 PWR SUP-OPER	OFF	.00	66	F4
	010802	ATVC =2 PWR SUP-OPER	OFF	.00	67	F5
	010803	ATVC =3 PWR SUP-OPER	OFF	.00	68	F6
	010804	ATVC =4 PWR SUP-OPER	OFF	.00	80	F6
	010811	ATVC =1 ISO VLV DRVR	OFF	.00	65	F4
	010812	ATVC =2 ISO VLV DRVR	OFF	.00	63	F5
	010813	ATVC =3 ISO VLV DRVR	OFF	.00	64	F6
	010814	ATVC =4 ISO VLV DRVR	OFF	.00	76	F6
	010821	ATVC =1 ACTS-OPER	OFF	.00	66	OT
	010822	ATVC =2 ACTS-OPER	OFF	.00	67	OT
	010823	ATVC =3 ACTS-OPER	OFF	.00	68	OT
	010824	ATVC =4 ACTS-OPER	OFF	.00	80	OT
	011001	ASA =1 IVD/PF-OPER	OFF	.00	68	F4
	011002	ASA =2 IVD/PF-OPER	OFF	.00	66	F5
	011003	ASA =3 IVD/PF-OPER	OFF	.00	67	F6
	011004	ASA =4 IVD-OPER	OFF	.00	76	F6

Figure 6.3-1. - Continued

024901	HDSET INTF UNIT-PLT	ON	.71	42	AC
024902	HDSET INTF UNIT-CHGR	ON	.71	41	AC
030102	ADI =2 FWD PH	OFF	.00	20	AC
032704	CRT DU =4 - WSS	OFF	.00	24	HX
033101	PANEL LTS - LEFT/CTR	CHANGED TO	177.78	211	AC
033102	PANEL LTS - LEFT/OVHD	CHANGED TO	155.02	212	AC
033103	PANEL LIGHTS - RIGHT	CHANGED TO	115.48	215	AC
033107	PANEL LTS - RHT/OVHD	CHANGED TO	115.61	214	AC
033201	INSTR LTS - LEFT/CTR	CHANGED TO	57.62	218	AC
033202	INSTR LTS - OVERHEAD	CHANGED TO	24.08	215	AC
033203	INSTR LTS - RIGHT	OFF	.00	211	AC
033501	MID DK FLDLT 1	ON	1.71	4	AC
033502	MID DK FLDLT 2	ON	1.73	5	AC
033503	MID DK FLDLT 3	ON	1.72	6	AC
033504	MID DK FLDLT 4	ON	1.72	6	AC
033505	MID DK FLDLT 6	ON	1.73	5	AC
033506	MID DK FLDLT 7	ON	1.72	6	AC
033507	MID DK FLDLT 8	ON	1.71	4	AC
034202	GLASSHD FLDLT-LEFT	CHANGED TO	8.39	41	AC
034203	GLASSHD FLDLT-RIGHT	CHANGED TO	8.36	42	AC
034204	LRFT OVERHEAD FLDLT A	OFF	.00	17	AC
034205	RHT OVERHEAD FLDLT A	OFF	.00	18	AC
034206	CONSOLE FLDLT-CMOTL	OFF	.00	16	AC
034207	CONSOLE FLDLT-PLT	OFF	.00	17	AC
070901	MM =1 TAPE OPER	CHANGED TO	78.51	22	W1
070902	MM =2 TAPE OPER	CHANGED TO	78.52	23	W2
215103	OME COVER HT A-53-LP	ON	35.71	72	OT
215107	CT LN W3 HT A1-21-LP	ON	78.09	72	OT
215108	CT LN W3 HT A2-21-LP	ON	82.22	72	OT
215109	CT LN W3 HT A3-21-LP	ON	41.09	72	OT
215111	CT LN W3 HT A4-21-LP	ON	84.27	72	OT
215303	OME COVER HT A-54-RP	ON	35.71	73	OT
215307	CT LN W3 HT A1-22-RP	ON	78.09	73	OT
215308	CT LN W3 HT A2-22-RP	ON	82.22	73	OT
215309	CT LN W3 HT A3-22-RP	ON	41.09	73	OT
215311	CT LN W3 HT A4-22-RP	ON	84.27	73	OT
401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC

-- TOTAL SOURCE POWER IS NOW 17.40 KW --

003:48:21.0	070901	MM =1 TAPE OPER	CHANGED TO	20.17	22	W1
	070902	MM =2 TAPE OPER	CHANGED TO	20.17	23	W2

-- TOTAL SOURCE POWER IS NOW 17.27 KW --

003:53:21.7	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
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-- TOTAL SOURCE POWER IS NOW 17.01 KW --

004:05:00.0	033501	MID DK FLDLT 1	CHANGED TO	17.18	4	AC
	033502	MID DK FLDLT 2	CHANGED TO	17.26	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	17.26	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	17.26	6	AC
	033505	MID DK FLDLT 6	CHANGED TO	17.26	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	17.26	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	17.18	4	AC

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 17.12 KW --

034:16:30.3	335101	G02 PRG LNE HTP AUT	OFF	.00	48	OT
	305201	G02 PRG LNE HTP AUT	OFF	.00	48	OT

-- TOTAL SOURCE POWER IS NOW 17.02 KW --

004:17:00.0	020101	B+W TV MONITOR =1	ON	36.41	10	HX
	020102	B+W TV MONITOR =2	ON	36.58	11	HX
	020200	REMOTE CONTROL UNIT	ON	41.61	10	HX
	020210	VIDEO SWITCHING UNIT	ON	20.80	10	HX
	020301	COLOR TV CAM =1	ON	14.10	15	AC
	020302	COLOR TV CAM =2	ON	14.10	15	AC
	020311	CLP CAM1 LN ASY-SBY	ON	5.86	15	OT
	020312	CLP CAM2 LN ASY-SBY	ON	5.86	15	OT
	020321	VIEW FINDER MON=1	ON	4.34	15	AC
	020322	VIEW FINDER MON=2	ON	4.34	15	AC
	021101	S-BAND FM XMITT =1	CHANGED TO	36.94	33	W3
	021200	S-BAND FM SIG-PP0-OPP	CHANGED TO	2.64	36	A3

-- TOTAL SOURCE POWER IS NOW 17.24 KW --

034:40:50.3	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC

-- TOTAL SOURCE POWER IS NOW 16.69 KW --

034:45:00.0	020101	B+W TV MONITOR =1	OFF	.00	10	HX
	020102	B+W TV MONITOR =2	OFF	.00	11	HX
	020200	REMOTE CONTROL UNIT	OFF	.00	10	HX
	020210	VIDEO SWITCHING UNIT	OFF	.00	10	HX
	020301	COLOR TV CAM =1	OFF	.00	15	AC
	020302	COLOR TV CAM =2	OFF	.00	15	AC
	020311	CLP CAM1 LN ASY-SBY	OFF	.00	15	OT
	020312	CLP CAM2 LN ASY-SBY	OFF	.00	15	OT
	020321	VIEW FINDER MON=1	OFF	.00	15	AC
	020322	VIEW FINDER MON=2	OFF	.00	15	AC
	021101	S-BAND FM XMITT =1	CHANGED TO	11.19	33	W3
	021200	S-BAND FM SIG-PP0-OPP	CHANGED TO	.83	36	A3

-- TOTAL SOURCE POWER IS NOW 16.47 KW --

034:47:21.3	225205	AFT RCS HT-ENG R20-Z	ON	1.00	84	OT
	225206	AFT RCS HT-ENG R30-Z	ON	1.00	86	OT
	225207	AFT RCS HT-ENG R40-Z	ON	1.00	86	OT
	225305	AFT RCS HT-ENG L20-Z	ON	1.00	84	OT
	225306	AFT RCS HT-ENG L30-Z	ON	1.00	86	OT
	225307	AFT RCS HT-ENG L40-Z	ON	1.00	86	OT
	505303	WSB TK/BOILER HTR 2A	ON	10.00	63	OT

-- TOTAL SOURCE POWER IS NOW 16.49 KW --

035:35:00.0	033501	MID DK FLOLT 1	CHANGED TO	1.73	4	AC
	033502	MID DK FLOLT 2	CHANGED TO	1.74	5	AC
	033503	MID DK FLOLT 3	CHANGED TO	1.74	6	AC
	033504	MID DK FLOLT 4	CHANGED TO	1.74	6	AC

Figure 6.3-1. - Continued

	033506	MID DK FLDLT 6	CHANGED TO	1.74	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	1.74	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	1.73	4	AC
	-- TOTAL SOURCE POWER IS NOW 16.37 KW --					
005:47:21.0	325701	OIL LINE HTR 1A	ON	9.84	84	OT
	325703	OIL LINE HTR 2A	ON	10.17	85	OT
	325705	OIL LINE HTR 3A	ON	12.00	86	OT
	-- TOTAL SOURCE POWER IS NOW 16.41 KW --					
005:50:00.0	020101	B+W TV MONITOR =1	ON	36.61	10	HX
	020102	B+W TV MONITOR =2	ON	36.77	11	HX
	020200	REMOTE CONTROL UNIT	ON	41.84	10	HX
	020210	VIDEO SWITCHING UNIT	ON	20.92	10	HX
	020301	COLOR TV CAM =1	ON	14.18	15	AC
	020302	COLOR TV CAM =2	ON	14.18	15	AC
	020311	CLR CAM1 LN ASY-SBY	ON	5.89	15	OT
	020312	CLR CAM2 LN ASY-SBY	ON	5.89	15	OT
	020321	VIEW FINDER MON=1	ON	4.36	15	AC
	020322	VIEW FINDER MON=2	ON	4.36	15	AC
	021101	S-BAND FM XMITR =1	CHANGED TO	37.24	33	W3
	021200	S-BAND FM SIG PRO-ORB	CHANGED TO	2.66	36	A3
	-- TOTAL SOURCE POWER IS NOW 16.63 KW --					
006:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.79	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.80	9	FM
	061805	H202 CRYO ASY1A-02CY	ON	26.01	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	26.07	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.82	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.80	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	26.14	8	FM
	061816	H202 CRYO ASY2B-02CY	ON	26.07	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
	-- TOTAL SOURCE POWER IS NOW 18.96 KW --					
006:12:21.0	035500	C+W STATUS DISPLAY	ON	19.94	43	AC
	-- TOTAL SOURCE POWER IS NOW 18.98 KW --					
006:12:25.0	035500	C+W STATUS DISPLAY	OFF	.00	43	AC
	-- TOTAL SOURCE POWER IS NOW 18.96 KW --					

Figure 6.3-1. - Continued

006:15:00.0	020101	B+W TV MONITOR #1	OFF	.00	10	HX
	020102	B+W TV MONITOR #2	OFF	.00	11	HX
	020200	REMOTE CONTROL UNIT	OFF	.00	10	HX
	020210	VIDEO SWITCHING UNIT	OFF	.00	10	HX
	020301	COLOR TV CAM #1	OFF	.00	15	AC
	020302	COLOR TV CAM #2	OFF	.00	15	AC
	020311	CLR CAM1 LN ASY-SBY	OFF	.00	15	OT
	020312	CLR CAM2 LN ASY-SBY	OFF	.00	15	OT
	020321	VIEW FINDER MON#1	OFF	.00	15	AC
	020322	VIEW FINDER MON#2	OFF	.00	15	AC
	J21101	S-BAND FM X"ITP #1	CHANGED TO	10.98	33	W3
	J21200	S-BND FM SIG PRO-ORB	CHANGED TO	.78	36	A3
-- TOTAL SOURCE POWER IS NOW				18.74 KW	--	
006:17:21.0	505305	WSB TK/BOILER HTP 3A	ON	6.67	64	OT
	-- TOTAL SOURCE POWER IS NOW				18.75 KW	--
006:35:00.0	010301	STAR TRACKER -Z AXIS	ON	16.65	16	OT
	500100	CREW OPTC ALIGN SGHT	ON	16.34	217	AC
-- TOTAL SOURCE POWER IS NOW				18.78 KW	--	
006:47:21.0	215105	Y-WB INBD HT A-33-LP	ON	15.00	72	OT
	215305	Y-WB INBD HT A-34-RP	ON	15.00	73	OT
	225103	FWD RCS HT-ENG F1U+Z	ON	4.25	7	OT
	225107	FWD RCS HT-ENG F2U+Z	ON	4.50	8	OT
	225112	FWD RCS HT-ENG F3U+Z	ON	4.25	8	OT
	225201	AFT RCS HT-ENG R1R-Y	ON	.50	85	OT
	225202	AFT RCS HT-ENG R2R-Y	ON	.50	84	OT
	225203	AFT RCS HT-ENG R3R-Y	ON	.50	86	OT
	225204	AFT RCS HT-ENG R4R-Y	ON	.75	86	OT
	225301	AFT RCS HT-ENG L1L+Y	ON	.50	85	OT
	225302	AFT RCS HT-ENG L2L+Y	ON	.50	84	OT
	225303	AFT RCS HT-ENG L3L+Y	ON	.50	86	OT
	225304	AFT RCS HT-ENG L4L+Y	ON	.75	86	OT
	505301	WSB TK/BOILER HTP 1A	ON	7.50	65	OT
-- TOTAL SOURCE POWER IS NOW				18.84 KW	--	
007:05:00.0	010301	STAR TRACKER -Z AXIS	OFF	.00	16	OT
-- TOTAL SOURCE POWER IS NOW				18.82 KW	--	
007:19:30.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW				18.39 KW	--	

Figure 6.3-1. - Continued

007:20:00.0	600100	CREW OPTIC ALIGN SGHT	OFF	.00	217	AC
-- TOTAL SOURCE POWER IS NOW 18.37 KW --						
007:30:00.0	033800	WASTE MGT COMPARTMNT	ON	16.95	4	AC
	401600	SOL COL SLINGR	ON	61.63	4	AC
	401701	WTR SEP WASTE SYS 1	ON	261.54	201	AC
-- TOTAL SOURCE POWER IS NOW 18.73 KW --						
007:36:50.4	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
TOTAL SOURCE POWER IS NOW 16.03 KW						
007:42:00.0	401600	SOL COL SLINGR	OFF	.00	4	AC
TOTAL SOURCE POWER IS NOW 16.76 KW						
007:47:21.0	401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
TOTAL SOURCE POWER IS NOW 17.03 KW						
007:50:00.0	402311	FOOD WARMER-OFT PHA	ON	265.56	217	AC
	402312	FOOD WARMER-OFT PHC	ON	265.37	219	AC
TOTAL SOURCE POWER IS NOW 17.59 KW						
007:53:21.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
TOTAL SOURCE POWER IS NOW 17.32 KW						
007:54:00.0	033800	WASTE MGT COMPARTMNT	OFF	.00	4	AC
	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
TOTAL SOURCE POWER IS NOW 17.03 KW						
008:47:21.0	225101	FWD RCS HT-ENG F1F-X	ON	6.50	7	OT
	225105	FWD RCS HT-ENG F2F-X	ON	6.50	8	OT
TOTAL SOURCE POWER IS NOW 17.04 KW						
009:17:21.0	408101	PRI FWTR LV HTA-TS5	ON	1.33	84	OT
TOTAL SOURCE POWER IS NOW 17.04 KW						
009:20:00.0	033501	MID DK FLDLT 1	CHANGED TO	17.18	4	AC

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Figure 6.3-1. - Continued

	033502	MID DK FLDLT 2	CHANGED TO	17.26	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	17.25	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	17.25	6	AC
	033506	MID DK FLDLT 6	CHANGED TO	17.26	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	17.25	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	17.18	4	AC
-- TOTAL SOURCE POWER IS NOW 17.15 KW --						
009:47:21.0	215104	Y-WB OTBD HT A-27-LP	ON	75.00	72	OT
	215304	Y-WB OTBD HT A-28-RP	ON	75.00	73	OT
	225109	FWD RCS HT-FNG F3F-X	ON	15.00	8	OT
-- TOTAL SOURCE POWER IS NOW 17.32 KW --						
009:55:00.0	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC
-- TOTAL SOURCE POWER IS NOW 16.77 KW --						
010:00:37.0	029101	TV CAM HTR-FWD PLB	CHANGED TO	7.96	11	OT
	029102	TV CAM HTR-AFT PLB	CHANGED TO	7.96	10	OT
	028105	TV CAM HTR-KEEL BAY	CHANGED TO	7.96	15	OT
	028201	PAN TLT HTR-FWD BAY	CHANGED TO	3.26	11	OT
	028202	PAN TLT HTR-AFT BAY	CHANGED TO	3.26	10	OT
	028203	PAN TLT HTR-KEEL BAY	CHANGED TO	3.26	15	OT
	215101	GSE SR PN HT A-43-LP	CHANGED TO	9.77	72	OT
	215103	OME COVER HT A-53-LP	CHANGED TO	37.91	72	OT
	215104	Y-WB OTBD HT A-27-LP	CHANGED TO	26.86	72	OT
	215105	Y-WB INBD HT A-33-LP	CHANGED TO	23.03	72	OT
	215107	CT LN WB HT A1-21-LP	CHANGED TO	71.84	72	OT
	215108	CT LN WB HT A2-21-LP	CHANGED TO	75.64	72	OT
	215109	CT LN WB HT A3-21-LP	CHANGED TO	37.80	72	OT
	215111	CT LN WB HT A4-21-LP	CHANGED TO	77.53	72	OT
	215112	RCS HSNG HT A1-41-LP	CHANGED TO	22.71	72	OT
	215113	RCS HSNG HT A2-41-LP	CHANGED TO	19.60	72	OT
	215301	GSE SR PN HT A-44-RP	CHANGED TO	9.77	73	OT
	215303	OME COVER HT A-54-RP	CHANGED TO	37.91	73	OT
	215304	Y-WB OTBD HT A-28-RP	CHANGED TO	26.86	73	OT
	215305	Y-WB INBD HT A-34-RP	CHANGED TO	23.03	73	OT
	215307	CT LN WB HT A1-22-RP	CHANGED TO	71.84	73	OT
	215308	CT LN WB HT A2-22-RP	CHANGED TO	75.64	73	OT
	215309	CT LN WB HT A3-22-RP	CHANGED TO	37.80	73	OT
	215311	CT LN WB HT A4-22-RP	CHANGED TO	77.53	73	OT
	215312	RCS HSNG HT A1-42-RP	CHANGED TO	22.71	73	OT
	215313	RCS HSNG HT A2-42-RP	CHANGED TO	19.60	73	OT
	217001	XFD OX/FU FLXL HTA-L	CHANGED TO	10.70	72	OT
	217003	XFD OX/FU FLXL HTA-R	CHANGED TO	10.70	72	OT
	217101	XFD OX/FU LNE HT-A-L	CHANGED TO	7.44	72	OT
	217103	XFD OX/FU LNE HT-A-R	CHANGED TO	7.44	72	OT
	217105	XFD OX/FU LNE HT-A-C	CHANGED TO	9.77	72	OT
	217201	FU HIPT BLDLN HT-A-A	CHANGED TO	4.15	72	OT
	217203	FU HIPT BLDLN HT-A-M	CHANGED TO	6.74	72	OT
	217301	OX HIPT BLDLN HT-A-A	CHANGED TO	4.65	72	OT
	217303	OX HIPT BLDLN HT-A-M	CHANGED TO	6.98	72	OT
	217401	LOPT OXFU DRLN HTA-L	CHANGED TO	1.40	72	OT
	217403	LOPT OXFU DRLN HTA-R	CHANGED TO	1.40	72	OT

Figure 6.3-1. - Continued

225101	FWD RCS HT-ENG F1F-X	CHANGED TO	4.44	7	OT
225103	FWD RCS HT-ENG F1U+Z	CHANGED TO	3.53	7	OT
225105	FWD RCS HT-ENG F2F-X	CHANGED TO	4.51	8	OT
225107	FWD RCS HT-ENG F2U+Z	CHANGED TO	3.47	8	OT
225109	FWD RCS HT-ENG F3F-X	CHANGED TO	3.84	8	OT
225112	FWD RCS HT-ENG F3U+Z	CHANGED TO	3.42	8	OT
225201	AFT RCS HT-ENG R1R-Y	CHANGED TO	.72	85	OT
225202	AFT RCS HT-ENG R2R-Y	CHANGED TO	.72	84	OT
225203	AFT RCS HT-ENG R3R-Y	CHANGED TO	.72	86	OT
225204	AFT RCS HT-ENG R4R-Y	CHANGED TO	.72	86	OT
225205	AFT RCS HT-ENG R2D-Z	CHANGED TO	.63	84	OT
225206	AFT RCS HT-ENG R3D-Z	CHANGED TO	.63	86	OT
225207	AFT RCS HT-ENG R4D-Z	CHANGED TO	.63	86	OT
225208	AFT RCS HT-ENG R1U+Z	CHANGED TO	1.07	85	OT
225209	AFT RCS HT-ENG R2U+Z	CHANGED TO	1.07	84	OT
225211	AFT RCS HT-ENG R4U+Z	CHANGED TO	1.07	86	OT
225212	AFT RCS HT-ENG R1A+X	CHANGED TO	1.07	85	OT
225213	AFT RCS HT-ENG R3A+X	CHANGED TO	2.37	86	OT
225301	AFT RCS HT-ENG L1L+Y	CHANGED TO	.72	85	OT
225302	AFT RCS HT-ENG L2L+Y	CHANGED TO	.72	84	OT
225303	AFT RCS HT-ENG L3L+Y	CHANGED TO	.72	86	OT
225304	AFT RCS HT-ENG L4L+Y	CHANGED TO	.72	86	OT
225305	AFT RCS HT-ENG L2D-Z	CHANGED TO	.63	84	OT
225306	AFT RCS HT-ENG L3D-Z	CHANGED TO	.63	86	OT
225307	AFT RCS HT-ENG L4D-Z	CHANGED TO	.63	86	OT
225308	AFT RCS HT-ENG L1U+Z	CHANGED TO	1.07	85	OT
225309	AFT RCS HT-ENG L2U+Z	CHANGED TO	1.07	84	OT
225311	AFT RCS HT-ENG L4U+Z	CHANGED TO	1.07	86	OT
225312	AFT RCS HT-ENG L1A+X	CHANGED TO	1.07	85	OT
225313	AFT RCS HT-ENG L3A+X	CHANGED TO	2.37	86	OT
225501	AFT VRN HT-ENG R5D-Z	CHANGED TO	.84	86	OT
225502	AFT VRN HT-ENG R3R-Y	CHANGED TO	3.95	86	OT
225503	AFT VRN HT-ENG L5D-Z	CHANGED TO	.84	86	OT
225504	AFT VRN HT-ENG L5L+Y	CHANGED TO	3.95	86	OT
325602	H2O NOZ BARREL HTR B	CHANGED TO	2.84	49	OT
325702	H2O NOZ ORIFICE HT B	CHANGED TO	23.99	49	OT
325201	FUEL FEEDLINE HTR 1A	CHANGED TO	12.95	84	OT
325203	FUEL FEEDLINE HTR 2A	CHANGED TO	15.65	85	OT
325205	FUEL FEEDLINE HTR 3A	CHANGED TO	10.47	86	OT
325301	FUEL SERVLIN HTR 1A	CHANGED TO	12.33	84	OT
325303	FUEL SERVLIN HTR 2A	CHANGED TO	9.05	85	OT
325305	FUEL SERVLIN HTR 3A	CHANGED TO	11.16	86	OT
325401	FUEL DRN LINE HTR 1A	CHANGED TO	7.79	84	OT
325403	FUEL DRN LINE HTR 2A	CHANGED TO	13.12	85	OT
325405	FUEL DRN LINE HTR 3A	CHANGED TO	5.58	86	OT
325601	TURB GAS GEN HTR 1A	ON	32.79	84	OT
325603	TURB GAS GEN HTR 2A	ON	32.79	85	OT
325605	TURB GAS GEN HTR 3A	ON	32.79	86	OT
325701	OIL LINE HTR 1A	CHANGED TO	10.95	84	OT
325703	OIL LINE HTR 2A	CHANGED TO	11.37	85	OT
325705	OIL LINE HTR 3A	CHANGED TO	11.63	86	OT
408101	PRI FWTR LN HTA-TS5	CHANGED TO	1.53	84	OT
408103	PRI FWTR LN HTA-TS6	CHANGED TO	3.02	84	OT
408105	PRI FWTR LN HTA-TS7	CHANGED TO	7.75	47	OT
408107	PRI FWTR LN HTA-TS5	CHANGED TO	2.79	84	OT
408203	SEC FWTR LN HTA-TS12	CHANGED TO	2.87	86	OT
408205	SEC FWTR LN HTA-TS13	CHANGED TO	9.43	49	OT

Figure 6.3-1. - Continued

	408207	SEC FWTR LN HTR-TS3	CHANGED TO	3.95	86	OT
	409001	TOP'G DUCT HTR1 SEC1	CHANGED TO	46.53	47	OT
	409101	TOP'G DUCT HTR1 SEC2	CHANGED TO	116.26	47	OT
	409201	TOP'G DUCT HTR1 SEC3	CHANGED TO	26.30	84	OT
	409301	TOP'G DUCT HTR1 SEC4	CHANGED TO	26.30	84	OT
	409401	SONIC LFT NOZ HTR 1A	CHANGED TO	11.26	84	OT
	409501	SONIC RHT NOZ HTR 2A	CHANGED TO	11.12	85	OT
	505301	WSB TK/BOILER HTR 1A	CHANGED TO	6.05	65	OT
	505303	WSB TK/BOILER HTR 2A	CHANGED TO	8.38	63	OT
	505305	WSB TK/BOILER HTR 3A	CHANGED TO	7.67	64	OT
-- TOTAL SOURCE POWER IS NOW 16.77 KW --						
010:50:00.0	033501	MID DK FLDLT 1	CHANGED TO	1.73	4	AC
	033502	MID DK FLDLT 2	CHANGED TO	1.74	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	1.73	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	1.73	6	AC
	033506	MID DK FLDLT 6	CHANGED TO	1.74	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	1.73	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	1.73	4	AC
-- TOTAL SOURCE POWER IS NOW 16.66 KW --						
011:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.96	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.93	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.93	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.93	9	FM
	215102	ENG SR PN HT A-37-LP	ON	10.71	72	OT
	215302	ENG SR PN HT A-38-RP	ON	10.71	73	OT
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
-- TOTAL SOURCE POWER IS NOW 17.11 KW --						
011:20:00.0	010301	STAR TRACKER -Z AXIS	ON	16.66	16	OT
	600100	CREW OPTIC ALIGN SGHT	ON	16.34	217	AC
-- TOTAL SOURCE POWER IS NOW 17.15 KW --						
011:47:21.0	401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
-- TOTAL SOURCE POWER IS NOW 17.41 KW --						
011:50:00.0	010301	STAR TRACKER -Z AXIS	OFF	.00	16	OT
-- TOTAL SOURCE POWER IS NOW 17.40 KW --						
011:53:21.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
-- TOTAL SOURCE POWER IS NOW 17.13 KW --						
011:54:00.0	305101	G02 PRG LNE HTR AUT	ON	40.70	48	OT
	305201	G02 PRG LNE HTR AUT	ON	51.50	48	OT
-- TOTAL SOURCE POWER IS NOW 17.23 KW --						

Figure 6.3-1. - Continued

012:00:00.0	061805	H202 CRYO ASY1A-02CY	ON	25.97	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	26.04	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	26.08	8	FM
	061816	H202 CRYO ASY2B-02CY	ON	26.04	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
-- TOTAL SOURCE POWER IS NOW 19.13 KW --						
012:05:00.0	600100	CREW OPTC ALIGN SGHT	OFF	.00	217	AC
-- TOTAL SOURCE POWER IS NOW 19.11 KW --						
012:10:00.0	300601	FCP1 02 PRG/DUAL FDV	ON	10.90	47	OT
	300701	FCP1 GH2 PURGE VALVE	ON	10.90	47	OT
-- TOTAL SOURCE POWER IS NOW 19.14 KW --						
012:12:00.0	300601	FCP1 02 PRG/DUAL FDV	OFF	.00	47	OT
	300602	FCP2 02 PRG/DUAL FDV	ON	11.00	48	OT
	300701	FCP1 GH2 PURGE VALVE	OFF	.00	47	OT
	300702	FCP2 GH2 PURGE VALVE	ON	11.00	48	OT
-- TOTAL SOURCE POWER IS NOW 19.14 KW --						
012:14:00.0	300602	FCP2 02 PRG/DUAL FDV	OFF	.00	48	OT
	300603	FCP3 02 PRG/DUAL FDV	ON	11.04	49	OT
	300702	FCP2 GH2 PURGE VALVE	OFF	.00	48	OT
	300703	FCP3 GH2 PURGE VALVE	ON	11.04	49	OT
-- TOTAL SOURCE POWER IS NOW 19.14 KW --						
012:16:00.0	300603	FCP3 02 PRG/DUAL FDV	OFF	.00	49	OT
	300703	FCP3 GH2 PURGE VALVE	OFF	.00	49	OT
-- TOTAL SOURCE POWER IS NOW 19.11 KW --						
012:19:30.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 18.68 KW --						
012:25:00.0	033800	WASTE MGT COMPARTMNT	ON	16.91	4	AC
	034206	CONSOLE FLDLT-CMD(L)	ON	17.63	16	AC

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Figure 6.3-1. - Continued

	401701	WTR SEP WASTE SYS 1	ON	261.54	201	AC
		-- TOTAL SOURCE POWER IS NOW	18.99 KW --			
012:30:00.0	305301	H2O VENT LN HTR A	ON	.44	47	OT
	305401	FCP1 H2O RLF VL HT A	ON	.17	47	OT
	305403	FCP2 H2O RLF VL HT A	ON	.17	47	OT
	305405	FCP3 H2O RLF VL HT A	ON	.17	47	OT
	408201	SEC FWTR LN HTA-TS11	ON	1.01	86	OT
		-- TOTAL SOURCE POWER IS NOW	18.99 KW --			
012:43:00.0	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
		-- TOTAL SOURCE POWER IS NOW	18.72 KW --			
012:55:00.0	033800	WASTE MGT COMPARTMNT	OFF	.00	4	AC
		-- TOTAL SOURCE POWER IS NOW	18.70 KW --			
013:10:00.0	010302	STAR TRACKER -Y AXIS	OFF	.00	17	OT
	024201	AUDIO TERM UN-PLT RT	OFF	.00	42	AC
	024202	AUDIO TERM UN-COR LT	OFF	.00	41	AC
	024203	AUDIO TERM UNIT-PSS	OFF	.00	10	AC
	024204	AUDIO TERM UNIT-PS	OFF	.00	15	AC
	024207	AUDIO TERM UNIT-MD=1	ON	3.66	11	AC
	024701	SPKR MIKE UNIT -OS	OFF	.00	10	AC
	024901	HDSET INTF UNIT-PLT	OFF	.00	42	AC
	024902	HDSET INTF UNIT-CMDR	OFF	.00	41	AC
	030101	ADI =1 FWD LH	OFF	.00	19	AC
	032201	DDU =1 FWD LH	OFF	.00	19	HX
	032701	CRT DU =1 - LF	OFF	.00	22	HX
	032703	CRT DU =3 - CF	OFF	.00	24	HX
	032704	CRT DU =4 - MSS	ON	20.38	24	HX
	032801	DEU =1	OFF	.00	22	HX
	032803	DEU =3	OFF	.00	24	HX
	033101	PANEL LTS - LEFT/CTR	OFF	.00	211	AC
	033102	PANEL LTS - LFT/OVHD	OFF	.00	212	AC
	033103	PANEL LIGHTS - RIGHT	OFF	.00	215	AC
	033107	PANEL LTS - RHT/OVHD	OFF	.00	214	AC
	033201	INSTR LTS - LEFT/CTR	OFF	.00	218	AC
	033202	INSTR LTS - OVERHEAD	OFF	.00	215	AC
	033501	MID DK FLDLT 1	OFF	.00	4	AC
	033502	MID DK FLDLT 2	OFF	.00	5	AC
	033503	MID DK FLDLT 3	OFF	.00	6	AC
	033504	MID DK FLDLT 4	OFF	.00	6	AC
	033506	MID DK FLDLT 6	OFF	.00	5	AC
	033507	MID DK FLDLT 7	OFF	.00	6	AC
	033508	MID DK FLDLT 8	OFF	.00	4	AC
	033800	WASTE MGT COMPARTMNT	ON	17.17	4	AC
	034201	FLIGHT DK FLDLTS-OS	ON	4.97	11	AC
	034206	CONSOLE FLDLT-CMDLT	CHANGED TO	8.97	16	AC
		-- TOTAL SOURCE POWER IS NOW	17.27 KW --			
013:11:00.0	305101	GH2 PRG LNE HTR AUT	OFF	.00	48	OT
	305201	GH2 PRG LNE HTR AUT	OFF	.00	48	OT

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 17.17 KW --

013:36:50.4	061805	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT

-- TOTAL SOURCE POWER IS NOW 15.27 KW --

014:00:00.0	225100	FWD RCS HT-ENG F2D-Z	ON	2.41	8	OT
	225401	FWD VRN HT-ENG F5R	ON	1.21	9	OT

-- TOTAL SOURCE POWER IS NOW 15.27 KW --

015:47:21.0	431302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
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-- TOTAL SOURCE POWER IS NOW 15.54 KW --

015:53:21.0	431302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
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-- TOTAL SOURCE POWER IS NOW 15.27 KW --

016:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.99	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	7.03	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	7.02	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	7.03	9	FM
	311901	H2 TANK 1 HEATER A	ON	95.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT

-- TOTAL SOURCE POWER IS NOW: 15.71 KW --

017:00:00.0	225104	FWD RCS HT-ENG F1D-Z	ON	1.92	7	OT
	225105	FWD RCS HT-ENG F2R-Y	ON	1.72	8	OT
	225113	FWD RCS HT-ENG F3D-Z	ON	1.92	8	OT
	225115	FWD RCS HT-ENG F4D-Z	ON	1.92	9	OT
	225402	FWD VRN HT-ENG F5L	ON	1.06	9	OT

-- TOTAL SOURCE POWER IS NOW 15.72 KW --

017:19:30.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT

Figure 6.3-1. - Continued

	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
		-- TOTAL SOURCE POWER IS NOW 15.28 KW --				
018:00:00.0	061805	H202 CRYO ASY1A-02CY	ON	26.46	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	26.54	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	26.56	8	FM
	061816	H202 CRYO ASY2B-02CY	ON	26.54	9	FM
	225102	FWD RCS HT-ENG FIL+Y	ON	1.51	7	OT
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
		-- TOTAL SOURCE POWER IS NOW 17.18 KW --				
019:36:50.4	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
		-- TOTAL SOURCE POWER IS NOW 15.28 KW --				
019:47:21.0	431302	H2O PUMP LOOP 1(B)	ON	254.34	202	WC
		-- TOTAL SOURCE POWER IS NOW 15.55 KW --				
019:53:21.0	431302	H2O PUMP LOOP 1(B)	OFF	.00	202	WC
		-- TOTAL SOURCE POWER IS NOW 15.28 KW --				
020:00:00.0	215106	Y-WB UPR HT A-31-LP	ON	6.06	72	OT
	215306	Y-WB UPR HT A-32-RP	ON	6.06	73	OT
	225111	FWD RCS HT-ENG F3L+Y	ON	1.55	8	OT
	225114	FWD PCS HT-ENG F4R-Y	ON	1.58	9	OT
		-- TOTAL SOURCE POWER IS NOW 15.30 KW --				
020:25:00.0	432311	FOOD WARMER-OFT PHA	ON	245.56	217	AC
	432312	FOOD WARMER-OFT PHC	ON	245.37	219	AC
		-- TOTAL SOURCE POWER IS NOW 15.85 KW --				
021:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.96	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.99	9	FM

Figure 6.3-1. - Continued

	061813	H202 CRYO ASY2A-H2CY	ON	6.98	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.99	9	FM
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
-- TOTAL SOURCE POWER IS NOW 16.29 KW --						
021:10:00.0	010302	STAR TRACKED -Y AXIS	ON	16.65	17	OT
	024201	AUDIO TERM UN-PLT RT	ON	3.53	42	AC
	024202	AUDIO TERM UN-CDF LT	ON	3.53	41	AC
	024203	AUDIO TERM UNIT-MSS	ON	3.62	10	AC
	024204	AUDIO TERM UNIT-PS	ON	3.78	15	AC
	024207	AUDIO TERM UNIT-MD=1	OFF	.00	11	AC
	024701	SPKR MIKE UNIT-OS	ON	1.82	20	AC
	024901	HOSET INTF UNIT-PLT	ON	.71	42	AC
	024902	HOSET INTF UNIT-CMDR	ON	.71	41	AC
	030101	ADI =1 FWD LH	ON	18.20	19	AC
	032201	ODU =1 FWD LH	ON	120.00	19	HX
	032701	CRT DU =1 - LF	ON	89.94	22	HX
	032703	CRT DU =3 - CF	ON	89.94	24	HX
	032704	CRT DU =4 - MSS	OFF	.00	24	HX
	032801	DEU =1	ON	202.00	22	HX
	032803	DEU =3	ON	202.00	24	HX
	033101	PANEL LTS - LEFT/CTR	ON	170.85	211	AC
	033102	PANEL LTS - LEFT/OVHD	ON	155.13	212	AC
	033103	PANEL LIGHTS - RIGHT	ON	116.46	215	AC
	033107	PANEL LTS - RHT/OVHD	ON	115.61	214	AC
	033201	INSTR LTS - LEFT/CTR	ON	50.62	218	AC
	033202	INSTR LTS - OVERHEAD	ON	24.08	215	AC
	033501	MID DK FLDLT 1	ON	1.70	4	AC
	033502	MID DK FLDLT 2	ON	1.72	5	AC
	033503	MID DK FLDLT 3	ON	1.71	6	AC
	033504	MID DK FLDLT 4	ON	1.71	6	AC
	033505	MID DK FLDLT 6	ON	1.72	5	AC
	033507	MID DK FLDLT 7	ON	1.71	6	AC
	033508	MID DK FLDLT 8	ON	1.70	4	AC
	034201	FLIGHT DK FLDLTS-OS	OFF	.00	11	AC
	034206	CONSOLE FLDLT-CMDLT	CHANGED TO	17.76	16	AC
	070901	MM =1 TAPE OPER	CHANGED TO	77.95	22	W1
	070902	MM =2 TAPE OPER	CHANGED TO	77.97	23	W2
	401701	WTR SEP WASTE SYS 1	ON	261.54	201	AC
-- TOTAL SOURCE POWER IS NOW 18.14 KW --						
021:11:00.0	070901	MM =1 TAPE OPER	CHANGED TO	20.02	22	W1
	070902	MM =2 TAPE OPER	CHANGED TO	20.03	23	W2
-- TOTAL SOURCE POWER IS NOW 18.01 KW --						
021:28:00.0	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
-- TOTAL SOURCE POWER IS NOW 17.74 KW --						
021:40:00.0	033800	WASTE MGT COMPARTM	OFF	.00	4	AC

Figure 6.3-1. - Continued

			-- TOTAL SOURCE POWER IS NOW 17.72 KW --			
021:45:00.0	010301	STAR TRACKER -7 AXIS	ON	16.65	16	OT
	400100	CREW OPTIC ALIGN SGM	ON	16.36	217	AC
			-- TOTAL SOURCE POWER IS NOW 17.75 KW --			
021:54:00.0	335101	GH2 PRS LNE HTR AUT	ON	40.78	48	OT
	335201	GH2 PRS LNE HTR AUT	ON	51.60	48	OT
			-- TOTAL SOURCE POWER IS NOW 17.85 KW --			
021:55:00.0	033501	MID DK FLDLT 1	CHANGED TO	17.06	4	AC
	033502	MID DK FLDLT 2	CHANGED TO	17.14	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	17.13	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	17.13	6	AC
	033506	MID DK FLDLT 6	CHANGED TO	17.14	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	17.13	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	17.06	4	AC
	334200	CONSOLE FLDLT-CHD(L)	OFF	.00	16	AC
			-- TOTAL SOURCE POWER IS NOW 17.95 KW --			
022:03:00.0	505401	WSB VENT NOZZ HTR 1A	ON	73.60	65	OT
	505403	WSB VENT NOZZ HTR 2A	ON	61.50	63	OT
	505405	WSB VENT NOZZ HTR 3A	ON	59.10	64	OT
			-- TOTAL SOURCE POWER IS NOW 18.15 KW --			
022:10:00.0	300601	FCP1 02 PRG/DUAL FDV	ON	10.99	47	OT
	300701	FCP1 GH2 PURGE VALVE	ON	10.99	47	OT
			-- TOTAL SOURCE POWER IS NOW 18.17 KW --			
022:12:00.0	300601	FCP1 02 PRG/DUAL FDV	OFF	.00	47	OT
	300602	FCP2 02 PRG/DUAL FDV	ON	11.09	48	OT
	300701	FCP1 GH2 PURGE VALVE	OFF	.00	47	OT
	300702	FCP2 GH2 PURGE VALVE	ON	11.09	48	OT
			-- TOTAL SOURCE POWER IS NOW 18.17 KW --			
022:14:00.0	300602	FCP2 02 PRG/DUAL FDV	OFF	.00	48	OT
	300603	FCP3 02 PRG/DUAL FDV	ON	11.16	49	OT
	300702	FCP2 GH2 PURGE VALVE	OFF	.00	48	OT
	300703	FCP3 GH2 PURGE VALVE	ON	11.16	49	OT
			-- TOTAL SOURCE POWER IS NOW 18.17 KW --			
022:15:00.0	010301	STAR TRACKER -7 AXIS	OFF	.00	16	OT
			-- TOTAL SOURCE POWER IS NOW 18.15 KW --			
022:16:00.0	300603	FCP3 02 PRG/DUAL FDV	OFF	.00	49	OT
	300703	FCP3 GH2 PURGE VALVE	OFF	.00	49	OT
			-- TOTAL SOURCE POWER IS NOW 18.13 KW --			

Figure 6.3-1. - Continued

022:19:30.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
022:30:00.0	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 17.70 KW --						
022:30:00.0	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC
	600100	CREW OPTC ALIGN SGHT	OFF	.00	217	AC
-- TOTAL SOURCE POWER IS NOW 17.12 KW --						
023:11:00.0	305101	G02 PRG LNE HTR AUT	OFF	.00	48	OT
	305201	GH2 PRG LNE HTR AUT	OFF	.00	48	OT
-- TOTAL SOURCE POWER IS NOW 17.03 KW --						
023:19:35.0	523301	VNT DR L AF 8/9 SYS1	ON	117.65	202	OT
	523302	VNT DR L AF 8/9 SYS2	ON	117.65	201	OT
	523303	VNT DR R AF 8/9 SYS1	ON	117.65	203	OT
	523304	VNT DR R AF 8/9 SYS2	ON	117.65	202	OT
-- TOTAL SOURCE POWER IS NOW 17.52 KW --						
023:19:40.0	523201	VNT DR L MID 6 SYS 1	ON	117.65	201	OT
	523202	VNT DR L MID 6 SYS 2	ON	117.65	203	OT
	523203	VNT DR R MID 6 SYS 1	ON	117.65	201	OT
	523204	VNT DR R MID 6 SYS 2	ON	117.65	202	OT
	523301	VNT DR L AF 8/9 SYS1	OFF	.00	202	OT
	523302	VNT DR L AF 8/9 SYS2	OFF	.00	201	OT
	523303	VNT DR R AF 8/9 SYS1	OFF	.00	203	OT
	523304	VNT DR R AF 8/9 SYS2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 17.52 KW --						
023:19:45.0	523101	VNT DR L MD 4/7 SYS1	ON	117.65	203	OT
	523102	VNT DR L MD 4/7 SYS2	ON	117.65	202	OT
	523103	VNT DR R MD 4/7 SYS1	ON	117.65	203	OT
	523104	VNT DR R MD 4/7 SYS2	ON	117.65	202	OT
	523201	VNT DR L MID 6 SYS 1	OFF	.00	201	OT
	523202	VNT DR L MID 6 SYS 2	OFF	.00	203	OT
	523203	VNT DR R MID 6 SYS 1	OFF	.00	201	OT
	523204	VNT DR R MID 6 SYS 2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 17.52 KW --						
023:19:50.0	523001	VNT DR L MID 5 SYS 1	ON	117.65	201	OT
	523002	VNT DR L MID 5 SYS 2	ON	117.65	202	OT
	523003	VNT DR R MID 5 SYS 1	ON	117.65	201	OT
	523004	VNT DR R MID 5 SYS 2	ON	117.65	203	OT
	523101	VNT DR L MD 4/7 SYS1	OFF	.00	203	OT
	523102	VNT DR L MD 4/7 SYS2	OFF	.00	202	OT

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Figure 6.3-1. - Continued

523103	VNT DR R MD 4/7 SYS1	OFF	.00	203	OT	
523104	VNT DR R MD 4/7 SYS2	OFF	.00	202	OT	
-- TOTAL SOURCE POWER IS NOW 17.52 KW --						
023:19:55.0	522901	VNT DR L MID 3 SYS 1	ON	117.65	201	OT
	522902	VNT DR L MID 3 SYS 2	ON	117.65	202	OT
	522903	VNT DR R MID 3 SYS 1	ON	117.65	201	OT
	522904	VNT DR R MID 3 SYS 2	ON	117.65	203	OT
	523001	VNT DR L MID 5 SYS 1	OFF	.00	201	OT
	523002	VNT DR L MID 5 SYS 2	OFF	.00	202	OT
	523003	VNT DR R MID 5 SYS 1	OFF	.00	201	OT
	523004	VNT DR R MID 5 SYS 2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 17.52 KW --						
023:20:00.0	010401	ADTA =1	ON	64.00	16	A1
	010402	ADTA =2	ON	64.00	17	A2
	010403	ADTA =3	ON	64.00	18	A1
	010404	ADTA =4	ON	64.00	16	A2
	010901	ASA1 PWR SUP LOG-OPR	ON	51.50	66	F4
	010902	ASA2 PWR SUP LOG-OPR	ON	51.50	67	F5
	010903	ASA3 PWR SUP LOG-OPR	ON	51.50	68	F6
	010904	ASA4 PWR SUP LOG-OPR	ON	51.50	80	F6
	011011	ASA 1 ACTUATORS-OPER	ON	16.60	66	OT
	011012	ASA 2 ACTUATORS-OPER	ON	16.60	67	OT
	011013	ASA 3 ACTUATORS-OPER	ON	16.60	68	OT
	011014	ASA 4 ACTUATORS-OPER	ON	16.59	80	OT
	011301	RGA =1 OPR	ON	35.92	78	FA
	011302	RGA =2 OPR	ON	36.40	64	FA
	011303	RGA =3 OPR	ON	36.40	49	FA
	011304	RGA =4 OPR	ON	35.95	46	FA
	011401	ACCEL ASSY =1 - OPER	ON	2.40	16	A1
	011402	ACCEL ASSY =2 - OPER	ON	2.40	17	A2
	011403	ACCEL ASSY =3 - OPER	ON	2.40	30	A2
	011404	ACCEL ASSY =4 - OPER	ON	2.40	29	A1
	021701	TACAN =1 SEARCH	ON	211.06	213	A1
	021702	TACAN =2 SEARCH	ON	209.15	216	A2
	021703	TACAN =3 SEARCH	ON	210.29	219	A3
	021901	MSBLS DCDR ASSY =1	ON	56.66	16	A1
	021902	MSBLS DCDR ASSY =2	ON	58.94	17	A2
	021903	MSBLS DCDR ASSY =3	ON	54.57	18	A2
	022001	MSBLS RF ASSY =1	ON	15.98	16	A1
	022002	MSBLS RF ASSY =2	ON	16.60	17	A2
	022003	MSBLS RF ASSY =3	ON	15.41	18	A2
	022101	RADAR ALTIMETER =1	ON	23.87	16	W1
	022102	RADAR ALTIMETER =2	ON	23.87	17	W2
	024901	MOSET INTF UNIT-PLT	OFF	.00	42	AC
	024902	MOSET INTF UNIT-CMDR	OFF	.00	41	AC
	030102	ADI =2 FWD PH	ON	17.60	20	AC
	030201	HSI =1	ON	27.71	16	AC
	030202	HSI =2	ON	27.71	17	AC
	030301	AMI =1	ON	7.26	16	AC
	030302	AMI =2	ON	7.26	17	AC
	030401	ALPHA MACH FL UNIT 1	ON	32.58	16	HX
	030402	ALPHA MACH EL UNIT 2	ON	32.58	17	HX
	030501	AVVI =1	ON	7.26	16	AC

Figure 6.3-1. - Continued

030502	AVVI =2	ON	7.26	17	AC
030601	ALT VER VEL EL UN =1	ON	25.53	16	HX
030602	ALT VER VEL EL UN =2	ON	25.53	17	HX
030705	TAPE MTR M1(HYD PRI)	ON	9.34	17	AC
030706	TAPE MTR M2(HYD QTY)	ON	9.34	17	AC
030707	TAPE MTR M3(APU)	ON	9.34	17	AC
030708	TAPE MTR M4(APU OIL)	ON	6.23	17	AC
031300	SPI	ON	17.46	16	AC
032202	DDU =2 FWD PH	ON	120.00	20	HX
033101	PANEL LTS - LEFT/CTR	CHANGED TO	258.94	211	AC
033102	PANEL LTS - LFT/OVHD	CHANGED TO	233.96	212	AC
033103	PANEL LIGHTS - RIGHT	OFF	.00	215	AC
033107	PANEL LTS - RHT/OVHD	CHANGED TO	172.55	214	AC
033201	INSTP LTS - LEFT/CTR	CHANGED TO	75.57	218	AC
033202	INSTP LTS - OVERHEAD	CHANGED TO	35.95	215	AC
033203	INSTP LTS - RIGHT	ON	66.06	211	AC
033800	WASTE MGT COMPARTMENT	ON	16.63	4	AC
034205	RHT OVERHEAD FLDLT A	ON	23.43	18	AC
040403	PAYLD RECORDER-REPLY	OFF	.00	30	W1
401600	SOL COL SLINGER	ON	60.46	4	AC
401701	WTR SEP WASTE SYS 1	ON	264.63	201	AC
522701	BRK/SKID CNTL BOX A	ON	18.21	30	A1
522702	BRK/SKID CNTL BOX B	ON	18.22	29	A2
522801	VNT DR L FD 1/2 SYS1	ON	117.96	203	OT
522802	VNT DR L FD 1/2 SYS2	ON	117.65	202	OT
522803	VNT DR R FD 1/2 SYS1	ON	119.08	201	OT
522804	VNT DR R FD 1/2 SYS2	ON	117.65	202	OT

-- TOTAL SOURCE POWER IS NOW 20.74 KW --

023:20:01.0	522901	VNT DR L MID 3 SYS 1	OFF	.00	201	OT
	522902	VNT DR L MID 3 SYS 2	OFF	.00	202	OT
	522903	VNT DR R MID 3 SYS 1	OFF	.00	201	OT
	522904	VNT DR R MID 3 SYS 2	OFF	.00	203	OT

-- TOTAL SOURCE POWER IS NOW 20.22 KW --

023:20:05.0	522801	VNT DR L FD 1/2 SYS1	OFF	.00	203	OT
	522802	VNT DR L FD 1/2 SYS2	OFF	.00	202	OT
	522803	VNT DR R FD 1/2 SYS1	OFF	.00	201	OT
	522804	VNT DR R FD 1/2 SYS2	OFF	.00	202	OT

-- TOTAL SOURCE POWER IS NOW 19.72 KW --

023:20:30.0	011301	RGA =1 OPR	CHANGED TO	25.02	78	FA
	011302	RGA =2 OPR	CHANGED TO	25.31	64	FA
	011303	RGA =3 OPR	CHANGED TO	25.31	49	FA
	011304	RGA =4 OPR	CHANGED TO	25.03	46	FA

-- TOTAL SOURCE POWER IS NOW 19.67 KW --

023:25:00.0	033501	MID DK FLDLT 1	OFF	.00	4	AC
	033502	MID DK FLDLT 2	OFF	.00	5	AC
	033503	MID DK FLDLT 3	OFF	.00	6	AC
	033504	MID DK FLDLT 4	OFF	.00	6	AC
	033505	MID DK FLDLT 5	OFF	.00	5	AC
	033507	MID DK FLDLT 7	OFF	.00	6	AC

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Figure 6.3-1. - Continued

	033508	MID DK FLDT 8	OFF	.00	4	AC
		-- TOTAL SOURCE POWER IS NOW 19.55 KW --				
023:30:00.0	030103	ADI =3 AFT	OFF	.00	21	AC
	032203	DDU =3 AFT	OFF	.00	21	HX
		-- TOTAL SOURCE POWER IS NOW 19.41 KW --				
023:32:00.0	401600	SOL COL SLINGER	OFF	.00	4	AC
		-- TOTAL SOURCE POWER IS NOW 19.34 KW --				
023:33:00.0	032702	CRT DU =2 - RF	ON	88.46	23	HX
	032402	DEU =2	ON	202.00	23	HX
	033103	PANEL LIGHTS - RIGHT	ON	116.42	215	AC
		-- TOTAL SOURCE POWER IS NOW 19.78 KW --				
023:35:00.0	011601	THC-LH	ON	3.22	19	AC
	011701	RHC-LH	ON	4.88	19	AC
	011702	RHC-RH	ON	4.89	20	AC
	011801	RPTA-LH	ON	1.25	19	AC
	011802	RPTA-RH	ON	1.25	20	AC
	011901	SBTC-LH	ON	1.66	19	AC
	011902	SBTC-RH	ON	1.66	20	AC
		-- TOTAL SOURCE POWER IS NOW 19.80 KW --				
023:40:00.0	402311	FOOD WARMER-OFT PHA	ON	265.56	217	AC
	402312	FOOD WARMER-OFT PHC	ON	267.97	219	AC
		-- TOTAL SOURCE POWER IS NOW 20.37 KW --				
023:44:00.0	033800	WASTE MGT COMPARTMNT	OFF	.00	4	AC
	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
		-- TOTAL SOURCE POWER IS NOW 20.07 KW --				
024:00:00.0	061805	H202 CRYO ASY1A-02CY	ON	25.26	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	25.36	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	25.41	8	FM
	061816	H202 CRYO ASY2B-02CY	ON	25.36	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
		-- TOTAL SOURCE POWER IS NOW 21.97 KW --				
024:02:00.0	500601	MN PMP =1 DEPRES VLV	ON	23.28	66	OT
	500602	MN PMP =2 DEPRES VLV	ON	23.28	67	OT
	500603	MN PMP =3 DEPRES VLV	ON	23.28	68	OT

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 22.04 KW --

024:02:59.3	503501	WSB #1 GN2 CTL VL A	ON	41.47	65	OT
	503503	WSB #2 GN2 CTL VL A	ON	40.70	63	OT
	503505	WSB #3 GN2 CTL VL A	ON	41.48	64	OT

-- TOTAL SOURCE POWER IS NOW 22.17 KW --

024:02:59.3	503501	WSB #1 GN2 CTL VL A	OFF	.00	65	OT
	503503	WSB #2 GN2 CTL VL A	OFF	.00	63	OT
	503505	WSB #3 GN2 CTL VL A	OFF	.00	64	OT

-- TOTAL SOURCE POWER IS NOW 22.04 KW --

024:03:00.0	320201	APU 1 FU ISO VLV 1	ON	32.24	63	OT
	320202	APU 1 FU ISO VLV 2	ON	32.23	64	OT
	320203	APU 2 FU ISO VLV 1	ON	32.23	64	OT
	320204	APU 2 FU ISO VLV 2	ON	32.22	65	OT
	320205	APU 3 FU ISO VLV 1	ON	32.22	65	OT
	320206	APU 3 FU ISO VLV 2	ON	32.24	63	OT
	320301	APU1 CNTLR-OPERATE	CHANGED TO	20.14	66	F4
	320302	APU2 CNTLR-OPERATE	CHANGED TO	20.14	67	F5
	320303	APU3 CNTLR-OPERATE	CHANGED TO	20.14	68	F6
	320401	APU 1 SHUTOFF VLV	ON	35.78	66	OT
	320402	APU 2 SHUTOFF VLV	ON	35.77	67	OT
	320403	APU 3 SHUTOFF VLV	ON	35.77	68	OT
	320501	APU 1 MODULATING VLV	ON	17.89	66	OT
	320502	APU 2 MODULATING VLV	ON	17.86	67	OT
	320503	APU 3 MODULATING VLV	ON	17.88	68	OT
	501801	RUD/SPBK SW VL ACT 1	ON	1.34	213	OT
	501802	RUD/SPBK SW VL PS2	ON	1.35	216	OT
	501901	ME 1 PITCH SW V ACTV	ON	1.35	216	OT
	501902	ME 1 YAW SW V ACTV	ON	1.35	216	OT
	501903	ME 2 PITCH SW V ACTV	ON	1.35	216	OT
	501904	ME 2 YAW SW V ACTV	ON	1.35	216	OT
	501905	ME 3 PITCH SW V ACTV	ON	1.35	216	OT
	501906	ME 3 YAW SW V ACTV	ON	1.35	216	OT
	502001	ELV ACT SW V ACT-LO	ON	1.34	213	OT
	502002	ELV ACT SW V PS2-LO	ON	1.35	216	OT
	502003	ELV ACT SW V ACT-LI	ON	1.34	213	OT
	502004	ELV ACT SW V PS2-LI	ON	1.35	216	OT
	502005	ELV ACT SW V ACT-RI	ON	1.34	213	OT
	502006	ELV ACT SW V PS2-RI	ON	1.35	216	OT
	502007	ELV ACT SW V ACT-RO	ON	1.34	213	OT
	502008	ELV ACT SW V PS2-RO	ON	1.35	216	OT

-- TOTAL SOURCE POWER IS NOW 22.48 KW --

024:03:05.0	500601	MN PMP #1 DEPRES VLV	OFF	.00	66	OT
	500602	MN PMP #2 DEPRES VLV	OFF	.00	67	OT
	500603	MN PMP #3 DEPRES VLV	OFF	.00	68	OT

-- TOTAL SOURCE POWER IS NOW 22.41 KW --

024:07:55.0	032702	CRT DU -2 - RF	OFF	.00	23	HX
	032802	DEU #2	OFF	.00	23	HX

Figure 6.3-1. - Continued

033103	PANEL LIGHTS - RIGHT	OFF	.00	215	AC
320201	APU 1 FU ISO VLV 1	OFF	.00	63	OT
320202	APU 1 FU ISO VLV 2	OFF	.00	64	OT
320203	APU 2 FU ISO VLV 1	OFF	.00	64	OT
320204	APU 2 FU ISO VLV 2	OFF	.00	65	OT
320205	APU 3 FU ISO VLV 1	OFF	.00	65	OT
320206	APU 3 FU ISO VLV 2	OFF	.00	63	OT
320301	APU1 CNTRLR-OPERATE	CHANGED TO	6.82	66	F4
320302	APU2 CNTRLR-OPERATE	CHANGED TO	6.82	67	F5
320303	APU3 CNTRLR-OPERATE	CHANGED TO	6.82	68	F6
320401	APU 1 SHUTOFF VLV	OFF	.00	66	OT
320402	APU 2 SHUTOFF VLV	OFF	.00	67	OT
320403	APU 3 SHUTOFF VLV	OFF	.00	68	OT
320501	APU 1 MODULATING VLV	OFF	.00	66	OT
320502	APU 2 MODULATING VLV	OFF	.00	67	OT
320503	APU 3 MODULATING VLV	OFF	.00	68	OT
501801	RUD/SPBK SW VL ACT 1	OFF	.00	213	OT
501802	RUD/SPDBK SW VL PS2	OFF	.00	216	OT
501901	ME 1 PITCH SW V ACTV	OFF	.00	216	OT
501902	ME 1 YAW SW V ACTV	OFF	.00	216	OT
501903	ME 2 PITCH SW V ACTV	OFF	.00	216	OT
501904	ME 2 YAW SW V ACTV	OFF	.00	216	OT
501905	ME 3 PITCH SW V ACTV	OFF	.00	216	OT
501906	ME 3 YAW SW V ACTV	OFF	.00	216	OT
502001	ELV ACT SW V ACT-LO	OFF	.00	213	OT
502002	ELV ACT SW V PS2-LO	OFF	.00	216	OT
502003	ELV ACT SW V ACT-LI	OFF	.00	213	OT
502004	ELV ACT SW V PS2-LI	OFF	.00	216	OT
502005	ELV ACT SW V ACT-RI	OFF	.00	213	OT
502006	ELV ACT SW V PS2-RI	OFF	.00	216	OT
502007	ELV ACT SW V ACT-RO	OFF	.00	213	OT
502008	ELV ACT SW V PS2-RO	OFF	.00	216	OT
505401	WSB VENT NOZZ HTR 1A	OFF	.00	65	OT
505403	WSB VENT NOZZ HTR 2A	OFF	.00	63	OT
505405	WSB VENT NOZZ HTR 3A	OFF	.00	64	OT

-- TOTAL SOURCE POWER IS NOW 21.33 KW --

024:20:00.0	732702	CRT DU #2 - RF	ON	87.01	23	HX
	032002	DEU #2	ON	202.00	23	HX

-- TOTAL SOURCE POWER IS NOW 21.64 KW --

024:50:00.0	070103	GPC CPU#3-RUN	CHANGED TO	313.00	31	A3
	070105	GPC CPU#5-RUN	CHANGED TO	313.00	31	A2
	070203	GPC IOP#3-RUN	CHANGED TO	340.00	31	A3
	070205	GPC IOP#5-RUN	CHANGED TO	340.00	31	A2

-- TOTAL SOURCE POWER IS NOW 21.71 KW --

025:10:00.0	033501	MID DK FLDLT 1	ON	16.50	4	AC
	033502	MID DK FLDLT 2	ON	16.50	5	AC
	033503	MID DK FLDLT 3	ON	16.50	6	AC
	033504	MID DK FLDLT 4	ON	16.50	6	AC
	033505	MID DK FLDLT 5	ON	16.50	5	AC
	033507	MID DK FLDLT 7	ON	16.50	6	AC
	033509	MID DK FLDLT 9	ON	16.50	4	AC

Figure 6.3-1. - Continued

			-- TOTAL SOURCE POWER IS NOW 21.83 KW --			
025:36:50.4	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
			-- TOTAL SOURCE POWER IS NOW 19.93 KW --			
025:45:00.0	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC
			-- TOTAL SOURCE POWER IS NOW 19.36 KW --			
026:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.72	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.76	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.76	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.76	9	FM
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
			-- TOTAL SOURCE POWER IS NOW 19.79 KW --			
026:05:00.0	400712	02 CONTROL VLV-SYS 2	ON	4.92	17	AC
			-- TOTAL SOURCE POWER IS NOW 19.80 KW --			
026:20:00.0	011001	ASA =1 IVD/RF-OPER	ON	.40	68	F4
	011002	ASA =2 IVD/RF-OPER	ON	.40	66	F5
	011003	ASA =3 IVD/RF-OPER	ON	.40	67	F6
	011004	ASA =4 IVD-OPER	ON	.40	76	F6
	402630	POT H2O XOVER VL-OP	ON	50.01	6	AC
	402700	POT H2O GLY SP VL-OP	ON	50.01	6	AC
			-- TOTAL SOURCE POWER IS NOW 19.90 KW --			
026:20:00.2	402630	POT H2O XOVER VL-OP	OFF	.00	6	AC
	402700	POT H2O GLY SP VL-OP	OFF	.00	6	AC
			-- TOTAL SOURCE POWER IS NOW 19.80 KW --			
026:40:00.0	033501	MID DK FLDLT 1	OFF	.00	4	AC
	033502	MID DK FLDLT 2	OFF	.00	5	AC
	033503	MID DK FLDLT 3	OFF	.00	6	AC
	033504	MID DK FLDLT 4	OFF	.00	6	AC
	033505	MID DK FLDLT 6	OFF	.00	5	AC

Figure 6.3-1. - Continued

	033507	MID DK FLDLT 7	OFF	.00	6	AC
	033508	MID DK FLDLT 8	OFF	.00	4	AC
		-- TOTAL SOURCE POWER IS NOW 19.68 KW --				
026:43:00.0	032704	CRT DU =4 - MSS	ON	87.94	24	HX
	032804	DEU =4	ON	202.00	24	HX
	033104	PANEL LIGHTS - MS	ON	21.90	218	AC
	033105	PANEL LIGHTS - OS/PS	ON	210.71	219	AC
	033204	INSTR LTS - OS	ON	17.65	213	AC
	033302	NUMERIC LIGHTS-OS	ON	26.14	216	AC
	034301	PAYLOAD STA FLD LT	ON	8.36	10	AC
	034302	MISSION STA FLD LT	ON	8.74	15	AC
		-- TOTAL SOURCE POWER IS NOW 20.31 KW --				
026:50:00.0	402502	POT TK A OUT VLV-OP	ON	49.82	6	AC
		-- TOTAL SOURCE POWER IS NOW 20.36 KW --				
026:50:00.2	402502	POT TK A OUT VLV-OP	OFF	.00	6	AC
		-- TOTAL SOURCE POWER IS NOW 20.31 KW --				
027:03:00.0	034801	PLB FLDLT ELEC ASY 1	ON	192.37	44	FM
	034802	PLB FLDLT ELEC ASY 2	ON	187.54	87	FM
	034901	PLB FLD FWD PORT EA1	ON	147.89	47	OT
	034902	PLB FLD FWD STBD EA2	ON	148.01	48	OT
	034903	PLB FLD MID PORT EA1	ON	148.01	48	OT
	034904	PLB FLD MID STBD EA2	ON	148.86	49	OT
	034905	PLB FLD AFT PORT EA2	ON	148.86	49	OT
	034906	PLB FLD AFT STBD EA1	ON	147.89	47	OT
		-- TOTAL SOURCE POWER IS NOW 21.64 KW --				
027:10:30.0	403301	RAD BYP VLV MTR1-LP1	ON	18.30	215	OT
	403303	RAD BYP VLV MTR1-LP2	ON	18.30	218	OT
		-- TOTAL SOURCE POWER IS NOW 21.68 KW --				
027:10:33.0	403301	RAD BYP VLV MTR1-LP1	OFF	.00	215	OT
	403303	RAD BYP VLV MTR1-LP2	OFF	.00	218	OT
		-- TOTAL SOURCE POWER IS NOW 21.64 KW --				
027:13:00.0	020101	B+W TV MONITOR =1	ON	34.83	10	HX
	020102	B+W TV MONITOR =2	ON	34.97	11	HX
	020200	REMOTE CONTROL UNIT	ON	39.81	10	HX
	020210	VIDEO SWITCHING UNIT	ON	19.90	10	HX
	020401	TV CAM B+W FWD PLB	ON	12.99	11	OT
	020402	TV CAM COL AFT PLB	ON	12.94	10	OT
	020405	TV CAM B+W KEEL-BAY	ON	13.53	15	OT
	020411	B+W CAM LN FWD-SBY	ON	2.43	11	OT
	020412	TV CAM AFT CLR LN-SB	ON	5.37	10	OT
	020415	B+W CAM LNS KEEL-SBY	ON	2.53	15	OT
	020501	PAN TILT ASY FWD-SBY	ON	1.30	11	OT
	020502	PAN TILT ASY AFT SBY	ON	1.29	10	OT

Figure 6.3-1. - Continued

	020503	PAN FLT ASY KEEL-SBY	ON	1.31	15	OT
	020600	VIDEO TP RECORD-OPR	ON	29.98	11	AC
	021101	S-BAND FM XMITR =1	CHANGED TO	35.10	33	W3
	021203	S-BAND FM SIG PRO-ORD	CHANGED TO	3.53	36	A3
	021401	S-BND PWR AMP 1-SBY	ON	20.81	23	W3
	021402	S-BND PWR AMP 2-OPR	ON	383.40	24	W3
-- TOTAL SOURCE POWER IS NOW				22.32 KW	--	
027:13:25.0	403801	FES HI LD PLSR V-PRI	ON	29.12	89	OT
	403811	FES HI LD ISO VL-PRI	ON	29.12	89	OT
	403901	FES TOP 6 PLSR V-PRI	CHANGED TO	29.12	89	OT
	403921	TPNG V HLDS COIL-PR	CHANGED TO	3.72	89	OT
-- TOTAL SOURCE POWER IS NOW				22.41 KW	--	
027:13:30.0	402901	FREQN PMP LP 1-A ASC	CHANGED TO	490.21	201	FP
	402903	FREQN PMP LP 2-A ASC	CHANGED TO	492.42	203	FP
	403001	RAD FLOW CNTLR A-LP1	OFF	.00	17	OT
	403002	RD FL CTR A-LP1 FALT	OFF	.00	17	OT
	403004	RD FL CTR B-LP1 FALT	OFF	.00	16	OT
	403101	RAD FLOW CNTLR A-LP2	OFF	.00	17	OT
	403102	RD FL CTR A-LP2 FALT	OFF	.00	17	OT
	403104	RD FL CTR B-LP2 FALT	OFF	.00	16	OT
	403201	RAD FL CNTL VLV-LP 1	OFF	.00	17	OT
	403202	RAD FL CNTL VLV-LP 2	OFF	.00	17	OT
	523901	RAD LH DPLY DRV MTR1	ON	81.26	201	OT
	523902	RAD LH DPLY DRV MTR2	ON	81.63	203	OT
	523903	RAD RH DPLY DRV MTR1	ON	81.26	201	OT
	523904	RAD RH DPLY DRV MTR2	ON	81.63	203	OT
-- TOTAL SOURCE POWER IS NOW				22.77 KW	--	
027:14:13.0	523901	RAD LH DPLY DRV MTR1	OFF	.00	201	OT
	523902	RAD LH DPLY DRV MTR2	OFF	.00	203	OT
	523903	RAD RH DPLY DRV MTR1	OFF	.00	201	OT
	523904	RAD RH DPLY DRV MTR2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW				22.41 KW	--	
027:14:18.0	523801	RAD LH RT LCH1-6 MT1	ON	81.49	201	OT
	523802	RAD LH RT LCH1-6 MT2	ON	81.05	202	OT
	523803	RAD LH RT LCH7-12 M1	ON	81.49	201	OT
	523804	RAD LH RT LCH7-12 M2	ON	81.63	203	OT
	523805	RAD RH RT LCH1-6 MT1	ON	81.49	201	OT
	523806	RAD RH RT LCH1-6 MT2	ON	81.05	202	OT
	523807	RAD RH RT LCH7-12 M1	ON	81.49	201	OT
	523808	RAD RH RT LCH7-12 M2	ON	81.63	203	OT
-- TOTAL SOURCE POWER IS NOW				23.11 KW	--	
027:14:44.0	523801	RAD LH RT LCH1-6 MT1	OFF	.00	201	OT
	523802	RAD LH RT LCH1-6 MT2	OFF	.00	202	OT
	523803	RAD LH RT LCH7-12 M1	OFF	.00	201	OT
	523804	RAD LH RT LCH7-12 M2	OFF	.00	203	OT
	523805	RAD RH RT LCH1-6 MT1	OFF	.00	201	OT
	523806	RAD RH RT LCH1-6 MT2	OFF	.00	202	OT

Figure 6.3-1. - Continued

	523807	RAD RH RT LCH7-12 M1	OFF	.00	201	OT
	523808	RAD RH RT LCH7-12 M2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.41 KW --				
027:15:44.0	521601	PLB LH DOOR DRV MTR1	ON	522.98	202	OT
	521602	PLB LH DOOR DRV MTR2	ON	530.83	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.55 KW --				
027:16:47.0	521601	PLB LH DOOR DRV MTR1	OFF	.00	202	OT
	521602	PLB LH DOOR DRV MTR2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.41 KW --				
027:16:57.0	523601	PBD LH FD BKHD LCH 1	ON	223.22	201	OT
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	OT
	523605	PBD LH AF BKHD LCH 1	ON	223.22	201	OT
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.38 KW --				
027:17:27.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	OT
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	OT
	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	OT
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 22.41 KW --				
027:17:37.0	521701	PLB RH DOOR DRV MTR1	ON	528.00	201	OT
	521702	PLB RH DOOR DRV MTR2	ON	522.88	202	OT
		-- TOTAL SOURCE POWER IS NOW 23.54 KW --				
027:18:40.0	521701	PLB RH DOOR DRV MTR1	OFF	.00	201	OT
	521702	PLB RH DOOR DRV MTR2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 22.41 KW --				
027:18:50.0	523603	PBD RH FD BKHD LCH 1	ON	221.92	201	OT
	523604	PBD RH FD BKHD LCH 2	ON	220.92	202	OT
	523607	PBD RH AF BKHD LCH 1	ON	222.94	203	OT
	523608	PBD RH AF BKHD LCH 2	ON	220.92	202	OT
		-- TOTAL SOURCE POWER IS NOW 23.36 KW --				
027:19:20.0	523603	PBD RH FD BKHD LCH 1	OFF	.00	201	OT
	523604	PBD RH FD BKHD LCH 2	OFF	.00	202	OT
	523607	PBD RH AF BKHD LCH 1	OFF	.00	203	OT
	523608	PBD RH AF BKHD LCH 2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 22.41 KW --				
027:19:30.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM

Figure 6.3-1. - Continued

	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT
	523702	PBD CTRLN LCH1-4 MT2	ON	198.69	203	OT
	523707	PBD CTRLN LH13-16 M1	ON	198.69	203	OT
	523708	PBD CTRLN LH13-16 M2	ON	196.05	202	OT
-- TOTAL SOURCE POWER IS NOW 22.84 KW --						
027:19:50.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT
	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT
	523707	PBD CTRLN LH13-16 M1	OFF	.00	203	OT
	523708	PBD CTRLN LH13-16 M2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 21.98 KW --						
027:20:00.0	523703	PBD CTRLN LCH5-8 MT1	ON	197.68	201	OT
	523704	PBD CTRLN LCH5-8 MT2	ON	198.69	203	OT
	523705	PBD CTRLN LCH9-12 M1	ON	197.68	201	OT
	523706	PBD CTRLN LCH9-12 M2	ON	198.69	203	OT
	600301	ESCAPE SUIT VT ASY L	ON	95.39	11	AC
	600302	ESCAPE SUIT VT ASY R	ON	94.95	10	AC
-- TOTAL SOURCE POWER IS NOW 23.05 KW --						
027:20:20.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT
	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 22.18 KW --						
027:33:00.0	034801	PLB FLDLT ELEC ASY 1	CHANGED TO	143.66	44	FM
-- TOTAL SOURCE POWER IS NOW 22.13 KW --						
027:40:00.0	010301	STAR TRACKED -7 AXIS	ON	16.62	16	OT
	600100	CREW OPTIC ALIGN SIGHT	ON	16.34	217	AC
-- TOTAL SOURCE POWER IS NOW 22.16 KW --						
027:43:00.0	020101	B+W TV MONITOR #1	OFF	.00	10	HX
	020102	R+W TV MONITOR #2	OFF	.00	11	HX
	020200	REMOTE CONTROL UNIT	OFF	.00	10	HX
	020210	VIDEO SWITCHING UNIT	OFF	.00	10	HX
	020401	TV CAM B+W FWD PLB	OFF	.00	11	OT
	020402	TV CAM COL AFT PLB	OFF	.00	10	OT
	020405	TV CAM B+W KEEL RAY	OFF	.00	15	OT
	020411	B+W CAM LN FWD-SBY	OFF	.00	11	OT
	020412	TV CAM AFT CLR LN-SB	OFF	.00	13	OT
	020415	R+W CAM LNS KEEL-SBY	OFF	.00	15	OT
	020501	PAN TILT ASY FWD SBY	OFF	.00	11	OT
	020502	PAN TILT ASY AFT SBY	OFF	.00	10	OT
	020503	PAN TILT ASY KEEL-SBY	OFF	.00	15	OT
	020600	VIDEO TP RECORD-OPR	OFF	.00	11	AC

Figure 6.3-1. - Continued

ORIGINAL PAGE IS OF POOR QUALITY	021101	S-BAND FM XMITR -1	CHANGED TO	10.73	33	W3
	021203	S-BND FM SIG PRO-ORB	CHANGED TO	.77	36	A3
	033104	PANEL LIGHTS - MS	OFF	.00	218	AC
	033105	PANEL LIGHTS - OS/PS	OFF	.00	219	AC
	033204	INSTR LTS - OS	OFF	.00	213	AC
	033302	NUMERIC LIGHTS-OS	OFF	.00	216	AC
	034301	PAYLOAD STA FLD LT	OFF	.00	10	AC
	034302	MISSION STA FLD LT	OFF	.00	15	AC
	034801	PLB FLDLT ELEC ASY 1	OFF	.00	44	FM
	034802	PLB FLDLT ELEC ASY 2	OFF	.00	87	FM
	034901	PLB FLD FWD PORT EA1	OFF	.00	47	OT
	034902	PLB FLD FWD STRD EA2	OFF	.00	48	OT
	034903	PLB FLD MID PORT EA1	OFF	.00	48	OT
	034904	PLB FLD MID STRD EA2	OFF	.00	49	OT
	034905	PLB FLD AFT PORT EA2	OFF	.00	49	OT
	034906	PLB FLD AFT STRD EA1	OFF	.00	47	OT
-- TOTAL SOURCE POWER IS NOW 20.32 KW --						
027:54:00.0	305101	GH2 PRG LNE HTR AUT	ON	40.70	48	OT
	305201	GH2 PRG LNE HTR AUT	ON	51.60	48	OT
-- TOTAL SOURCE POWER IS NOW 20.42 KW --						
028:10:00.0	010301	STAR TRACKER -Z AXIS	OFF	.00	16	OT
	300601	FCP1 02 PRG/DUAL FDV	ON	10.74	47	OT
	300701	FCP1 GH2 PURGE VALVE	ON	10.74	47	OT
	521001	STTRKR DR MTR 1 (-Y)	ON	43.17	201	OT
	521002	STTRKR DR MTR 2 (-Y)	ON	43.14	202	OT
	521003	STTRKR DR MTR 1 (-Z)	ON	43.18	203	OT
	521004	STTRKR DR MTR 2 (-Z)	ON	43.14	202	OT
-- TOTAL SOURCE POWER IS NOW 20.61 KW --						
028:11:00.0	521001	STTRKR DR MTR 1 (-Y)	OFF	.00	201	OT
	521002	STTRKR DR MTR 2 (-Y)	OFF	.00	202	OT
	521003	STTRKR DR MTR 1 (-Z)	OFF	.00	203	OT
	521004	STTRKR DR MTR 2 (-Z)	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 20.42 KW --						
028:12:00.0	300601	FCP1 02 PRG/DUAL FDV	OFF	.00	47	OT
	300602	FCP2 02 PRG/DUAL FDV	ON	10.87	48	OT
	300701	FCP1 GH2 PURGE VALVE	OFF	.00	47	OT
	300702	FCP2 GH2 PURGE VALVE	ON	10.87	48	OT
-- TOTAL SOURCE POWER IS NOW 20.42 KW --						
028:14:00.0	300602	FCP2 02 PRG/DUAL FDV	OFF	.00	48	OT
	300603	FCP3 02 PRG/DUAL FDV	ON	10.94	49	OT
	300702	FCP2 GH2 PURGE VALVE	OFF	.00	48	OT
	300703	FCP3 GH2 PURGE VALVE	ON	10.94	49	OT
-- TOTAL SOURCE POWER IS NOW 20.43 KW --						
028:16:00.0	300603	FCP3 02 PRG/DUAL FDV	OFF	.00	49	OT
	300703	FCP3 GH2 PURGE VALVE	OFF	.00	49	OT

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 20.40 KW --

028:20:00.0	010801	ATVC =1 PWR SUP-OPER	ON	38.90	66	F4
	010802	ATVC =2 PWR SUP-OPER	ON	38.90	67	F5
	010803	ATVC =3 PWR SUP-OPER	ON	38.90	68	F6
	010804	ATVC =4 PWR SUP-OPER	ON	38.90	80	F6
	010811	ATVC =1-ISO VLV DRVR	ON	.80	65	F4
	010812	ATVC =2-ISO VLV DRVR	ON	.80	63	F5
	010813	ATVC =3-ISO VLV DRVR	ON	.80	64	F6
	010814	ATVC =4-ISO VLV DRVR	ON	.80	76	F6
	010821	ATVC =1 ACTS-OPER	ON	3.30	66	OT
	010822	ATVC =2 ACTS-OPER	ON	3.30	67	OT
	010823	ATVC =3 ACTS-OPER	ON	3.30	68	OT
	010824	ATVC =4 ACTS-OPER	ON	3.30	80	OT
	021501	S-80 PREAMP 1-SBY	ON	13.14	33	W3
	021502	S-80 PREAMP 2-OPR	ON	19.27	34	W3
	024801	AUDIO INTF UNIT-PLT	ON	.69	42	AC
	024802	AUDIO INTF UNIT-CMDR	ON	.69	41	AC
	032704	CRT BU 24--MSS	OFF	.00	24	HX
	032804	DEU =4	OFF	.00	24	HX
	040403	PAYLD RECORDER-REPLY	ON	53.40	30	W1

-- TOTAL SOURCE POWER IS NOW 20.37 KW --

028:25:00.0	600100	CREW OPTC ALIGN SGHT	OFF	.00	217	AC
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-- TOTAL SOURCE POWER IS NOW 20.35 KW --

028:40:00.0	600201	SEAT ADJ ACT MTR-LFT	ON	128.93	11	AC
	600202	SEAT ADJ ACT MT-RGHT	ON	128.31	10	AC

-- TOTAL SOURCE POWER IS NOW 20.62 KW --

028:40:15.0	600201	SEAT ADJ ACT MTR-LFT	OFF	.00	11	AC
	600202	SEAT ADJ ACT MT-RGHT	OFF	.00	10	AC

-- TOTAL SOURCE POWER IS NOW 20.35 KW --

029:50:00.0	022201	UHF XCVR XMT/REC	ON	58.01	10	AC
	050703	WB FDM 2A (FMF2)-FWD	ON	26.08	12	DW
	050704	WB FDM 2B (FMF2)-FWD	ON	26.08	12	DW
	050705	WB FDM 3A (FMF3)-FWD	ON	26.08	12	DW
	050706	WB FDM 3B (FMF3)-FWD	ON	26.08	12	DW
	050801	WDBND FDM UN1-MID L1	ON	24.68	47	D1
	050802	WDBND FDM UN1-MID L1	ON	24.76	48	D1
	050803	WDBND FDM UN2-MID L1	ON	24.58	47	D1
	050804	WDBND FDM UN2-MID L1	ON	24.76	48	D1
	050805	WDBND FDM UN1-MID R2	ON	24.68	47	D2
	050806	WDBND FDM UN1-MID R2	ON	24.76	48	D2
	050807	WDBND FDM UN2-MID R2	ON	24.68	47	D2
	050808	WDBND FDM UN2-MID R2	ON	24.76	48	D2
	050812	WDBND FDM UN1-MID L3	ON	24.68	47	D3
	051020	WBSC FWD (A132)-WBM	ON	5.84	12	DW
	051032	WBSC FWD (A133)-WBM	ON	9.03	12	DW
	051041	WBSC FWD (A134)-WBM	ON	9.91	12	DW
	051111	WBSC LM1 (A135)-WBM	ON	2.77	48	D1

Figure 6.3-1. - Continued

Figure 0.5-1 - continued

051112	WBSC LM1 (A135)-WBM	ON	3.45	47	D1	
051121	WBSC LM1 (A136)-WBM	ON	3.47	48	D1	
051122	WBSC LM1 (A136)-WBM	ON	3.85	47	D1	
051131	WBSC LM1 (A137)-WBM	ON	5.25	48	D1	
051132	WBSC LM1 (A137)-WBM	ON	4.54	47	D1	
051141	WBSC LM1 (A138)-WBM	ON	3.86	48	D1	
051142	WBSC LM1 (A138)-WBM	ON	5.23	47	D1	
051211	WBSC RM2 (A139)-WBM	ON	2.77	48	D2	
051212	WBSC RM2 (A139)-WBM	ON	3.16	47	D2	
051221	WBSC RM2 (A140)-WBM	ON	3.17	48	D2	
051222	WBSC RM2 (A141)-WBM	ON	2.76	47	D2	
051231	WBSC RM2 (A141)-WBM	ON	4.85	48	D2	
051232	WBSC RM2 (A141)-WBM	ON	4.54	47	D2	
051241	WBSC RM2 (A142)-WBM	ON	3.17	48	D2	
051242	WBSC RM2 (A142)-WBM	ON	5.53	47	D2	
051322	WBSC LM3 (A144)-WBM	ON	6.91	47	D3	
051401	DC-DC XDUCCRS-FWD	ON	15.99	47	OT	
051402	DC-DC XDUCCRS-FWD	ON	5.63	12	OT	
051403	DC-DC XDUCCRS-FWD	ON	6.12	47	OT	
051404	DC-DC XDUCCRS-MID L1	ON	30.20	47	OT	
051405	DC-DC XDUCCRS-MID L1	ON	8.09	47	OT	
051406	DC-DC XDUCCRS-MID L1	ON	5.35	48	OT	
051407	DC-DC XDUCCRS-MID R2	ON	28.43	47	OT	
051408	DC-DC XDUCCRS-MID R2	ON	1.97	47	OT	
051409	DC-DC XDUCCRS-MID R2	ON	3.57	48	OT	
051411	DC-DC XDUCCRS-MID L3	ON	3.79	47	OT	
051412	DC-DC XDUCCRS-MID L3	ON	39.09	47	OT	
051503	SGSC FWD (A161)-WBM	ON	5.74	12	DW	
051504	SGSC FWD (A161)-WBM	ON	16.07	12	DW	
051612	SGSC ML1 (A162)-WBM	ON	15.20	47	D1	
051613	SGSC ML1 (A162)-WBM	ON	15.25	48	D1	
051622	SGSC ML1 (A163)-WBM	ON	30.51	48	D1	
051623	SGSC ML1 (A163)-WBM	ON	7.60	47	D1	
051652	SGSC MR2 (A169)-WBM	ON	30.51	48	D2	
051653	SGSC MR2 (A169)-WBM	ON	22.80	47	D2	
051654	SGSC ML3 (A166)-WBM	ON	30.40	47	D3	
051672	SGSC ML3 (A167)-WBM	ON	45.60	47	D3	
405001	NH3 SYSTEM CNTLR A	ON	6.17	87	OT	
405002	NH3 SYSTEM CNTLR B	ON	5.96	88	OT	
-- TOTAL SOURCE POWER IS NOW 21.24 KW --						
029:10:00.0	032704	CRT DU =4 - MSS	ON	86.52	24	HX
	032804	DEU =4	ON	202.00	24	HX
	033104	PANEL LIGHTS - 4S	ON	21.90	218	AC
	033105	PANEL LIGHTS - OS/PS	ON	210.80	219	AC
	033204	INSTR LTS - OS	ON	17.65	213	AC
	033302	NUMERIC LIGHTS-OS	ON	26.14	216	AC
	034301	PAYLOAD STA FLD LT	ON	8.23	10	AC
	034302	MISSION STA FLD LT	ON	8.59	15	AC
-- TOTAL SOURCE POWER IS NOW 21.86 KW --						
029:11:00.0	305101	G02 PRG LNE HTR AUT	OFF	.00	48	OT
	305201	GH2 PRG LNE HTR AUT	OFF	.00	48	OT
-- TOTAL SOURCE POWER IS NOW 21.77 KW --						

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Figure 6.3-1. - Continued

029:19:30.0	050910	WDBND RCDR (MAPS)	ON	60.81	12	AC
TOTAL SOURCE POWER IS NOW				21.43 KW		
029:20:00.0	010302	STAR TRACKED -Y AXIS	OFF	.00	17	OT
	010901	ASA1 PWR SUP LOG-OPR	OFF	.00	66	F4
	010902	ASA2 PWR SUP LOG-OPR	OFF	.00	67	F5
	010903	ASA3 PWR SUP LOG-OPR	OFF	.00	68	F6
	010904	ASA4 PWR SUP LOG-OPR	OFF	.00	80	F6
	011001	ASA =1 IVD/RF-OPER	OFF	.00	68	F4
	011002	ASA =2 IVD/RF-OPER	OFF	.00	66	F5
	011003	ASA =3 IVD/RF-OPER	OFF	.00	67	F6
	011004	ASA =4 IVD-OPER	OFF	.00	76	F6
	011011	ASA 1 ACTUATORS-OPER	OFF	.00	66	OT
	011012	ASA 2 ACTUATORS-OPER	OFF	.00	67	OT
	011013	ASA 3 ACTUATORS-OPER	OFF	.00	68	OT
	011014	ASA 4 ACTUATORS-OPER	OFF	.00	80	OT
	034205	RHT OVERHEAD FLDT A	OFF	.00	18	AC
	050910	WDBND RCDR (MAPS)	OFF	.00	12	AC
TOTAL SOURCE POWER IS NOW				21.44 KW		
029:30:00.0	021501	S-BD PREAMP 1-SBY	OFF	.00	33	W3
	021502	S-BD PREAMP 2-OPP	OFF	.00	34	W3
	024801	AUDIO INTF UNIT-PLT	OFF	.00	42	AC
	024802	AUDIO INTF UNIT-CHDR	OFF	.00	41	AC
	034801	PLB FLDT ELEC ASY 1	ON	190.52	44	FM
	034802	PLB FLDT ELEC ASY 2	ON	185.82	87	FM
	034901	PLB FLD FWD PORT EA1	ON	146.24	47	OT
	034902	PLB FLD FWD STBD EA2	ON	146.70	48	OT
	034903	PLB FLB MID PORT EA1	ON	146.70	48	OT
	034904	PLB FLD MID STBD EA2	ON	147.84	49	OT
	034905	PLB FLD AFT PORT EA2	ON	147.84	49	OT
	034906	PLB FLD AFT STBD EA1	ON	146.24	47	OT
	040403	PAYLD RECORDER-REPLY	OFF	.00	30	W1
	402502	POT TK A OUT VLV-OP	ON	48.96	6	AC
TOTAL SOURCE POWER IS NOW				22.70 KW		
029:30:00.2	402502	POT TK A OUT VLV-OP	OFF	.00	6	AC
TOTAL SOURCE POWER IS NOW				22.65 KW		
029:35:00.0	022201	UHF XCVR-XMT/REC	OFF	.00	10	AC
TOTAL SOURCE POWER IS NOW				22.60 KW		
029:37:30.0	403301	RAD BYP VLV MTR1-LP1	ON	18.30	215	OT
	403303	RAD BYP VLV MTR1-LP2	ON	18.30	218	OT
TOTAL SOURCE POWER IS NOW				22.63 KW		
029:37:33.0	403301	RAD BYP VLV MTR1-LP1	OFF	.00	215	OT
	403303	RAD BYP VLV MTR1-LP2	OFF	.00	218	OT
TOTAL SOURCE POWER IS NOW				22.60 KW		

Figure 6.3-1. - Continued

029:40:00.0	020101	B+W TV MONITOR #1	ON	33.74	10	HX
	020102	B+W TV MONITOR #2	ON	34.25	11	HX
	020103	REMOTE CONTROL UNIT	ON	38.50	10	HX
	020210	VIDEO SWITCHING UNIT	ON	19.28	11	OT
	020401	TV CAM B+W FWD FLR	ON	12.72	11	OT
	020402	TV CAM COL AFT FLR	ON	12.53	10	OT
	020403	TV CAM B+W KEEL-BAY	ON	13.17	15	OT
	020405	B+W CAM LN FWD-SEY	ON	2.38	11	OT
	020411	TV CAM AFT CLR LN-SB	ON	5.21	10	OT
	020412	R+W CAM LNS KEEL-SBY	ON	2.40	15	OT
	020415	PAN TILT ASY FWD-SEY	ON	1:27	11	OT
	020501	PAN TILT ASY AFT-SBY	ON	1.25	10	OT
	020502	PAN TILT ASY KEEL-SBY	ON	1.32	15	OT
	020503	PAN TILT ASY KEEL-SBY	ON	29.36	11	AC
	020600	VIDEO TP RECORD-OPP	ON	34.31	33	WJ
	021101	S-BAND FM XMITR #1	CHANGED TO	2.43	36	A3
	021200	S-BAND FM SIG PPO-ORB	CHANGED TO	553.60	47	OT
	409501	HI LD DUCT HTR1 SEC1	ON	254.50	47	OT
	409601	HI LD DUCT HTR1 SEC2	ON	130.70	47	OT
	409701	HI LD DUCT HTR1 SEC1	CHANGED TO	378.90	47	OT
	409801	TOP'G DUCT HTR1 SEC1	CHANGED TO	468.60	47	OT
	409901	TOP'G DUCT HTR1 SEC2	CHANGED TO	62.81	84	OT
	409901	TOP'G DUCT HTR1 SEC3	CHANGED TO	64.80	84	OT
	409901	TOP'G DUCT HTR1 SEC4	CHANGED TO	25.00	84	OT
	409901	SONIC LFT NO2 HTR 1A	CHANGED TO	24.70	85	OT
	409901	SONIC RHT NO2 HTR 2A	CHANGED TO	197.68	201	OT
	523703	PBD CTRLN LCH5-8 MT1	ON	198.69	203	OT
	523704	PBD CTRLN LCH5-8 MT2	ON	197.68	201	OT
	523705	PBD CTRLN LCH9-12 M1	ON	198.69	203	OT
	523706	PBD CTRLN LCH9-12 M2	ON			
-- TOTAL SOURCE POWER IS NOW 25.50 KW --						
029:40:20.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT
	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 24.63 KW --						
029:40:30.0	523701	PBD CTRLN LCH1-4 MT1	ON	197.68	201	OT
	523703	PBD CTRLN LCH5-8 MT1	ON	197.68	201	OT
	523707	PBD CTRLN LCH13-16 M1	ON	197.72	203	OT
	523708	PBD CTRLN LCH13-16 M2	ON	198.00	202	OT
-- TOTAL SOURCE POWER IS NOW 25.49 KW --						
029:40:50.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT
	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT
	523707	PBD CTRLN LCH13-16 M1	OFF	.00	203	OT
	523708	PBD CTRLN LCH13-16 M2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 24.63 KW --						
029:41:00.0	523603	PBD PH FD BKWD LCH 1	ON	221.92	201	OT
	523604	PBD PH FD BKWD LCH 2	ON	220.92	202	OT
	523607	PBD PH AF BKWD LCH 1	ON	222.94	203	OT

Figure 6.3-1. - Continued

	523608	PBD RH AF BKHD LCH 2	ON	220.92	202	OT
		-- TOTAL SOURCE POWER IS NOW	25.58 KW --			
029:41:30.0	523603	PBD RH FD BKHD LCH 1	OFF	.00	201	OT
	523604	PBD RH FD BKHD LCH 2	OFF	.00	202	OT
	523607	PBD RH AF BKHD LCH 1	OFF	.00	203	OT
	523608	PBD RH AF BKHD LCH 2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW	24.63 KW --			
029:41:40.0	521701	PLB RH DOOR DRV MTR1	ON	528.00	201	OT
	521702	PLB RH DOOR DRV MTR2	ON	522.88	202	OT
		-- TOTAL SOURCE POWER IS NOW	25.76 KW --			
029:42:43.0	521701	PLB RH DOOR DRV MTR1	OFF	.00	201	OT
	521702	PLB RH DOOR DRV MTR2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW	24.63 KW --			
029:42:53.0	523601	PBD LH FD BKHD LCH 1	ON	223.22	201	OT
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	OT
	523605	PBD LH AF BKHD LCH 1	ON	223.22	201	OT
	523606	PBD LH AF BKHD LCH 2	ON	222.94	203	OT
		-- TOTAL SOURCE POWER IS NOW	25.60 KW --			
029:43:23.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	OT
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	OT
	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	OT
	523606	PBD LH AF BKHD LCH 2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW	24.63 KW --			
029:43:33.0	521601	PLB LH DOOR DRV MTR1	ON	522.88	202	OT
	521602	PLB LH DOOR DRV MTR2	ON	530.83	203	OT
		-- TOTAL SOURCE POWER IS NOW	25.76 KW --			
029:44:36.0	521601	PLB LH DOOR DRV MTR1	OFF	.00	202	OT
	521602	PLB LH DOOR DRV MTR2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW	24.63 KW --			
029:45:36.0	523801	RAD LH RT LCH1-6 MT1	ON	81.49	201	OT
	523802	RAD LH RT LCH1-6 MT2	ON	81.05	202	OT
	523803	RAD LH RT LCH7-12 M1	ON	81.49	201	OT
	523804	RAD LH RT LCH7-12 M2	ON	81.63	203	OT
	523805	RAD RH RT LCH1-6 MT1	ON	81.49	201	OT
	523806	RAD RH RT LCH1-6 MT2	ON	81.05	202	OT
	523807	RAD RH RT LCH7-12 M1	ON	81.49	201	OT
	523808	RAD RH RT LCH7-12 M2	ON	81.63	203	OT
		-- TOTAL SOURCE POWER IS NOW	25.33 KW --			
029:46:02.0	523801	RAD LH RT LCH1-6 MT1	OFF	.00	201	OT

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Figure 6.3-1. - Continued

	523802	RAD LH RT LCH1-6 MT2	OFF	.00	202	OT
	523803	RAD LH RT LCH7-12 M1	OFF	.00	201	OT
	523804	RAD LH RT LCH7-12 M2	OFF	.00	203	OT
	523805	RAD RH RT LCH1-6 MT1	OFF	.00	201	OT
	523806	RAD RH RT LCH1-6 MT2	OFF	.00	202	OT
	523807	RAD RH RT LCH7-12 M1	OFF	.00	201	OT
	523808	RAD RH RT LCH7-12 M2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 24.63 KW --						
029:46:07.0	523901	RAD LH DPLY DRV MTR1	ON	81.26	201	OT
	523902	RAD LH DPLY DRV MTR2	ON	81.53	203	OT
	523903	RAD RH DPLY DRV MTR1	ON	81.26	201	OT
	523904	RAD RH DPLY DRV MTR2	ON	81.63	203	OT
-- TOTAL SOURCE POWER IS NOW 24.98 KW --						
029:46:50.0	523971	RAD LH DPLY DRV MTR1	OFF	.00	201	OT
	523972	RAD LH DPLY DRV MTR2	OFF	.00	203	OT
	523973	RAD RH DPLY DRV MTR1	OFF	.00	201	OT
	523974	RAD RH DPLY DRV MTR2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 24.63 KW --						
029:46:55.0	402901	FREQN PMP LP 1-A ASC	CHANGED TO	476.05	201	FP
	402903	FREQN PMP LP 2-A ASC	CHANGED TO	478.10	203	FP
	403001	RAD FLOW CNTLR A-LP1	ON	2.04	17	OT
	403002	RD FL CTR A-LP1 FALT	ON	1.53	17	OT
	403004	RD FL CTR B-LP1 FALT	ON	1.53	16	OT
	403101	RAD FLOW CNTLR A-LP2	ON	2.04	17	OT
	403102	RD FL CTR A-LP2 FALT	ON	1.53	17	OT
	403104	RD FL CTR B-LP2 FALT	ON	1.53	16	OT
	403201	RAD FL CNTL VLV-LP 1	ON	5.72	17	OT
	403202	RAD FL CNTL VLV-LP 2	ON	5.72	17	OT
	403801	FES HI LD PLSR V-PRI	OFF	.00	89	OT
	403811	FES HI LD TSO-VL-PRI	OFF	.00	89	OT
	403971	FES TOP'G PLSR V-PRI	CHANGED TO	7.85	89	OT
	403921	TPNG V HLNG COIL-PH	CHANGED TO	2.97	89	OT
	408501	HI LD DUCT HTR1 SEC1	OFF	.00	47	OT
	408601	HI LD DUCT HTR1 SEC2	OFF	.00	47	OT
	408701	HI LD DCT NOZ HT GP1	OFF	.00	47	OT
	409001	TOP'G DUCT HTR1 SEC1	CHANGED TO	46.53	47	OT
	409101	TOP'G DUCT HTR1 SEC2	CHANGED TO	116.26	47	OT
	409201	TOP'G DUCT HTR1 SEC3	CHANGED TO	26.30	84	OT
	409301	TOP'G DUCT HTR1 SEC4	CHANGED TO	26.30	84	OT
	409401	SONIC LFT NOZ HTR 1A	CHANGED TO	11.25	84	OT
	409501	SONIC RHT NOZ HTR 2A	CHANGED TO	11.12	85	OT
-- TOTAL SOURCE POWER IS NOW 22.75 KW --						
029:47:20.0	021401	S-RND PWR AMP 1-SBY	OFF	.00	23	W3
	021402	S-RND PWR AMP 2-OPP	OFF	.00	24	W3
-- TOTAL SOURCE POWER IS NOW 22.32 KW --						
029:50:00.0	010401	ADTA #1	OFF	.00	16	A1
	010402	ADTA #2	OFF	.00	17	A2

Figure 6.3-1. - Continued

010403	ADTA =3	OFF	.00	18	A1
010404	ADTA =4	OFF	.00	18	A2
011301	RGA =1 OPR	OFF	.00	78	FA
011302	RGA =2 OPR	OFF	.00	84	FA
011303	RGA =3 OPR	OFF	.00	49	FA
011304	RGA =4 OPR	OFF	.00	46	FA
011401	ACCEL ASSY =1 - OPER	OFF	.00	16	A1
011402	ACCEL ASSY =2 - OPER	OFF	.00	17	A2
011403	ACCEL ASSY =3 - OPER	OFF	.00	30	A3
011404	ACCEL ASSY =4 - OPER	OFF	.00	29	A1
020101	B+W TV MONITOR =1	OFF	.00	10	HX
020102	B+W TV MONITOR =2	OFF	.00	11	HX
020200	REMOTE CONTROL UNIT	OFF	.00	10	HX
020210	VIDEO SWITCHING UNIT	OFF	.00	10	HX
020401	TV CAM B+W FWD PLB	OFF	.00	11	OT
020402	TV CAM COL AFT PLB	OFF	.00	10	OT
020405	TV CAM B+W KEEL BAY	OFF	.00	15	OT
020411	B+W CAM LN FWD-SBY	OFF	.00	11	OT
020412	TV CAM AFT CLR LN-SB	OFF	.00	10	OT
020415	B+W CAM LNS-KEEL-SBY	OFF	.00	15	OT
020501	PAN TILT ASY FWD SBY	OFF	.00	11	OT
020502	PAN TILT ASY AFT SBY	OFF	.00	10	OT
020503	PAN TLT ASY KEEL-SBY	OFF	.00	15	OT
020600	VIDEO TP RECORD-OPR	OFF	.00	11	AC
021101	S-BAND FM XMITR =1	CHANGED TO	10.72	33	M3
021200	S-BAND FM SIG PRO-ORB	CHANGED TO	10.76	36	M3
050703	WB FDM 2A (FMF2)-FWD	OFF	.00	12	DW
050704	WB FDM 2B (FMF2)-FWD	OFF	.00	12	DW
050705	WB FDM 3A (FMF3)-FWD	OFF	.00	12	DW
050706	WB FDM 3B (FMF3)-FWD	OFF	.00	12	DW
050801	WDBND FDM UN1-MID L1	OFF	.00	47	D1
050802	WDBND FDM UN1-MID L1	OFF	.00	48	D1
050803	WDBND FDM UN2-MID L1	OFF	.00	47	D1
050804	WDBND FDM UN2-MID L1	OFF	.00	48	D1
050805	WDBND FDM UN1-MID R2	OFF	.00	47	D2
050806	WDBND FDM UN1-MID R2	OFF	.00	48	D2
050807	WDBND FDM UN2-MID R2	OFF	.00	47	D2
050809	WDBND FDM UN2-MID R2	OFF	.00	48	D2
050812	WDBND FDM UN1-MID L3	OFF	.00	47	D3
051020	WBSC FWD (A132)-WBM	OFF	.00	12	DW
051032	WBSC FWD (A133)-WBM	OFF	.00	12	DW
051041	WBSC FWD (A134)-WBM	OFF	.00	12	DW
051111	WBSC LM1 (A135)-WBM	OFF	.00	48	D1
051112	WBSC LM1 (A135)-WBM	OFF	.00	47	D1
051121	WBSC LM1 (A136)-WBM	OFF	.00	48	D1
051122	WBSC LM1 (A136)-WBM	OFF	.00	47	D1
051131	WBSC LM1 (A137)-WBM	OFF	.00	48	D1
051132	WBSC LM1 (A137)-WBM	OFF	.00	47	D1
051141	WBSC LM1 (A138)-WBM	OFF	.00	48	D1
051142	WBSC LM1 (A138)-WBM	OFF	.00	47	D1
051211	WBSC RM2 (A139)-WBM	OFF	.00	48	D2
051212	WBSC RM2 (A139)-WBM	OFF	.00	47	D2
051221	WBSC RM2 (A140)-WBM	OFF	.00	48	D2
051222	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051231	WBSC RM2 (A141)-WBM	OFF	.00	48	D2
051232	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051241	WBSC RM2 (A142)-WBM	OFF	.00	48	D2

Figure 6.3-1. - Continued

051242	WBSC RM2 (A142)-WBM	OFF	.00	47	D2
051322	WBSC LM3 (A144)-WBM	OFF	.00	47	D3
051401	DC-DC XDUCCERS-FWD	OFF	.00	47	OT
051402	DC-DC XDUCCERS-FWD	OFF	.00	12	OT
051403	DC-DC XDUCCERS-FWD	OFF	.00	47	OT
051404	DC-DC XDUCCERS-MID L1	OFF	.00	47	OT
051405	DC-DC XDUCCERS-MID L1	OFF	.00	47	OT
051406	DC-DC XDUCCERS-MID L1	OFF	.00	48	OT
051407	DC-DC XDUCCERS-MID R2	OFF	.00	47	OT
051408	DC-DC XDUCCERS-MID R2	OFF	.00	47	OT
051409	DC-DC XDUCCERS-MID R2	OFF	.00	48	OT
051411	DC-DC XDUCCERS-MID L3	OFF	.00	47	OT
051412	DC-DC XDUCCERS-MID L3	OFF	.00	47	OT
051503	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051504	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051612	SGSC ML1 (A162)-WBM	OFF	.00	47	D1
051613	SGSC ML1 (A162)-WBM	OFF	.00	48	D1
051622	SGSC ML1 (A163)-WBM	OFF	.00	48	D1
051623	SGSC ML1 (A163)-WBM	OFF	.00	47	D1
051652	SGSC MR2 (A169)-WBM	OFF	.00	48	D2
051653	SGSC MR2 (A169)-WBM	OFF	.00	47	D2
051662	SGSC ML3 (A166)-WBM	OFF	.00	47	D3
051672	SGSC ML3 (A167)-WBM	OFF	.00	47	D3
070103	GPC CPU#3-RUN	CHANGED TO	308.00	31	A3
070105	GPC CPU#5-RUN	CHANGED TO	308.00	31	A2
070203	GPC IOP#3-RUN	CHANGED TO	313.00	31	A3
070205	GPC IOP#5-RUN	CHANGED TO	313.00	31	A2
405012	02 CONTROL VLV=SYS 2	OFF	.00	17	AC
405001	NH3 SYSTEM CNTLR A	OFF	.00	87	OT
405002	NH3 SYSTEM CNTLR B	OFF	.00	88	OT
522701	BRK/SKID CNTL BOX A	OFF	.00	30	A1
522702	BRK/SKID CNTL BOX B	OFF	.00	29	A2
600301	ESCAPE SUIT VT ASY L	OFF	.00	11	AC
600302	ESCAPE SUIT VT ASY R	OFF	.00	10	AC

-- TOTAL SOURCE POWER IS NOW 20.58 KW --

030:00:00.0

034801	PLB FLDLT ELEC ASY 1	OFF	.00	44	FM
034802	PLB FLDLT ELEC ASY 2	OFF	.00	47	FM
034901	PLB FLD FWD PORT EA1	OFF	.00	47	OT
034902	PLB FLD FWD STBD EA2	OFF	.00	48	OT
034903	PLB FLD MID PORT EA1	OFF	.00	48	OT
034904	PLB FLD MID STBD EA2	OFF	.00	49	OT
034905	PLB FLD AFT PORT EA2	OFF	.00	49	OT
034906	PLB FLD AFT STBD EA1	OFF	.00	47	OT
061805	H202 CRYO ASY1A-02CY	ON	25.46	7	FM
061806	H202 CRYO ASY1B-02CY	ON	25.56	9	FM
061815	H202 CRYO ASY2A-02CY	ON	25.60	8	FM
061816	H202 CRYO ASY2B-02CY	ON	25.56	9	FM
311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
311804	02 TANK 2 HEATER B2	ON	222.70	8	OT

Figure G.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 21.13 KW --

033:05:00.0	033103	ADI =3 AFT	ON	17.61	21	AE
	032203	DDU =3 AFT	ON	120.00	21	HX

-- TOTAL SOURCE POWER IS NOW 21.27 KW --

033:10:00.0	032704	CRT DU =4 - MSS	OFF	.00	24	HX
	032804	DEU =4	OFF	.00	24	HX
	033104	PANEL LIGHTS - MS	OFF	.00	218	AC
	033105	PANEL LIGHTS - OS/PS	OFF	.00	219	AC
	033204	INSTR LTS - OS	OFF	.00	213	AC
	033302	NUMERIC LIGHTS-OS	OFF	.00	216	AC
	034301	PAYLOAD STA FLD LT	OFF	.00	10	AC
	034302	MISSION STA FLD LT	OFF	.00	15	AC

-- TOTAL SOURCE POWER IS NOW 20.64 KW --

033:20:00.0	010302	STAR TRACKER -Y AXIS	ON	16.64	17	OT
	010801	ATVC =1 PWR SUP-OPER	OFF	.00	66	F4
	010802	ATVC =2 PWR SUP-OPER	OFF	.00	67	F5
	010803	ATVC =3 PWR SUP-OPER	OFF	.00	68	F6
	010804	ATVC =4 PWR SUP-OPER	OFF	.00	80	F6
	010811	ATVC =1-ISO VLV DRVR	OFF	.00	65	F4
	010812	ATVC =2-ISO VLV DRVR	OFF	.00	63	F5
	010813	ATVC =3-ISO VLV DRVR	OFF	.00	64	F6
	010814	ATVC =4-ISO VLV DRVR	OFF	.00	76	F6
	010821	ATVC =1 ACTS-OPER	OFF	.00	66	OT
	010822	ATVC =2 ACTS-OPER	OFF	.00	67	OT
	010823	ATVC =3 ACTS-OPER	OFF	.00	68	OT
	010824	ATVC =4 ACTS-OPER	OFF	.00	80	OT
	021701	TACAN =1 SEARCH	OFF	.00	213	A1
	021702	TACAN =2 SEARCH	OFF	.00	216	A2
	021703	TACAN =3 SEARCH	OFF	.00	219	A3
	021901	MSBLS DCDR ASSY =1	OFF	.00	16	A1
	021902	MSBLS DCDR ASSY =2	OFF	.00	17	A2
	021903	MSBLS DCDR ASSY =3	OFF	.00	18	A2
	022001	MSBLS RF ASSY =1	OFF	.00	16	A1
	022002	MSBLS RF ASSY =2	OFF	.00	17	A2
	022003	MSBLS RF ASSY =3	OFF	.00	18	A2
	022101	RADAR ALTIMETER =1	OFF	.00	16	W1
	022102	RADAR ALTIMETER =2	OFF	.00	17	W2
	024901	HDSET INTF UNIT-PLT	ON	.70	42	AC
	024902	HDSET INTF UNIT-CMDR	ON	.70	41	AC
	030102	ADI =2 FWD PH	OFF	.00	20	AC
	030201	HSI =1	OFF	.00	16	AC
	030202	HSI =2	OFF	.00	17	AC
	030301	AMI =1	OFF	.00	16	AC
	030302	AMI =2	OFF	.00	17	AC
	030401	ALPHA MACH FL UNIT 1	OFF	.00	16	HX
	030402	ALPHA MACH FL UNIT 2	OFF	.00	17	HX
	030501	AVVI =1	OFF	.00	16	AC
	030502	AVVI =2	OFF	.00	17	AC
	030601	ALT VEP VEL EL UN =1	OFF	.00	16	HX
	030602	ALT VEP VEL EL UN =2	OFF	.00	17	HX
	030705	TAPE MTR M1(HYD PR)	OFF	.00	17	AC

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Figure 6.3-1. - Continued

030706	TAPE MTR M2 (HYD QTY)	OFF	.00	17	AC
030707	TAPE MTR M3 (APU)	OFF	.00	17	AC
030708	TAPE MTR M4 (APU OIL)	OFF	.00	17	AC
032202	DDU = 2 FWD PH	OFF	.00	20	HX
033101	PANEL LTS - LEFT/CTR	CHANGED TO	170.78	211	AC
033102	PANEL LTS - LFT/OVHD	CHANGED TO	155.02	212	AC
033103	PANEL LIGHTS - RIGHT	ON	116.48	215	AC
033107	PANEL LTS - RHT/OVHD	CHANGED TO	115.61	214	AC
033201	INSTR LTS - LEFT/CTR	CHANGED TO	50.62	218	AC
033202	INSTR LTS - OVERHEAD	CHANGED TO	24.08	215	AC
033203	INSTR LTS - RIGHT	OFF	.00	211	AC
033501	MID DK FLDLT 1	ON	1.69	4	AC
033502	MID DK FLDLT 2	ON	1.70	5	AC
033503	MID DK FLDLT 3	ON	1.69	6	AC
033504	MID DK FLDLT 4	ON	1.69	6	AC
033505	MID DK FLDLT 6	ON	1.70	5	AC
033507	MID DK FLDLT 7	ON	1.69	6	AC
033508	MID DK FLDLT 8	ON	1.69	4	AC
070901	MM = 1 TAPE OPER	CHANGED TO	77.25	22	W1
070902	MM = 2 TAPE OPER	CHANGED TO	77.25	23	W2
401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC

-- TOTAL SOURCE POWER IS NOW 19.34 KW --

030:21:00.0	070901	MM = 1 TAPE OPER	CHANGED TO	19.84	22	W1
	070902	MM = 2 TAPE OPER	CHANGED TO	19.84	23	W2

-- TOTAL SOURCE POWER IS NOW 19.21 KW --

030:24:44.0	030102	ADI = 2 FWD PH	ON	18.04	20	AC
	032202	DDU = 2 FWD PH	ON	120.00	20	HX
	033203	INSTR LTS - RIGHT	ON	64.97	211	AC
	070105	GPC CPU#5-RUN	CHANGED TO	313.00	31	A2
	070205	RPC TOP#5-RUN	CHANGED TO	340.00	31	A2

-- TOTAL SOURCE POWER IS NOW 19.46 KW --

030:26:09.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
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-- TOTAL SOURCE POWER IS NOW 19.19 KW --

030:44:44.0	220101	FWD THRUSTER F1F(-X)	CHANGED TO	.35	22	OT
	220105	FWD THRUSTER F2F(-X)	CHANGED TO	.35	23	OT
	220109	FWD THRUSTER F3F(-X)	CHANGED TO	.35	24	OT
	220111	FWD THRUSTER F3L(+Y)	CHANGED TO	.35	24	OT
	220201	AFT THRUSTER R1R(-Y)	CHANGED TO	.47	78	OT
	220204	AFT THRUSTER R2R(-Y)	CHANGED TO	.47	80	OT
	220207	AFT THRUSTER R3R(-Y)	CHANGED TO	.47	79	OT
	220214	AFT THRUSTER L1L(+Y)	CHANGED TO	.47	78	OT
	220217	AFT THRUSTER L2L(+Y)	CHANGED TO	.47	80	OT
	220221	AFT THRUSTER L3L(+Y)	CHANGED TO	.47	79	OT

-- TOTAL SOURCE POWER IS NOW 19.19 KW --

030:49:44.0	050703	WB FDM 2A (FHF2)-FWD	ON	26.29	12	OW
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Figure 6.3-1. - Continued

050704	WB FDM 2B (FMF2)-FWD	ON	26.29	12	DW
050705	WB FDM 3A (FMF3)-FWD	ON	26.29	12	DW
050706	WB FDM 3B (FMF3)-FWD	ON	26.29	12	DW
050801	WDBND FDM UN1-MID L1	ON	24.98	47	01
050802	WDBND FDM UN1-MID L1	ON	25.04	48	01
050803	WDBND FDM UN2-MID L1	ON	24.98	47	01
050804	WDBND FDM UN2-MID L1	ON	25.04	48	01
050805	WDBND FDM UN1-MID R2	ON	24.98	47	02
050806	WDBND FDM UN1-MID R2	ON	25.04	48	02
050807	WDBND FDM UN2-MID R2	ON	24.98	47	02
050808	WDBND FDM UN2-MID R2	ON	25.04	48	02
050812	WDBND FDM UN1-MID L3	ON	24.98	47	03
051020	WBSC FWD (A132)-WBM	ON	5.89	12	DW
051032	WBSC FWD (A133)-WBM	ON	8.10	12	DW
051041	WBSC FWD (A134)-WBM	ON	9.99	12	DW
051111	WBSC LM1 (A135)-WBM	ON	2.80	48	01
051112	WBSC LM1 (A135)-WBM	ON	3.50	47	01
051121	WBSC LM1 (A136)-WBM	ON	3.51	48	01
051122	WBSC LM1 (A136)-WBM	ON	3.90	47	01
051131	WBSC LM1 (A137)-WBM	ON	5.31	48	01
051132	WBSC LM1 (A137)-WBM	ON	4.60	47	01
051141	WBSC LM1 (A138)-WBM	ON	3.91	48	01
051142	WBSC LM1 (A138)-WBM	ON	5.29	47	01
051211	WBSC RM2 (A139)-WBM	ON	2.80	48	02
051212	WBSC RM2 (A139)-WBM	ON	3.20	47	02
051221	WBSC RM2 (A140)-WBM	ON	3.21	48	02
051222	WBSC RM2 (A141)-WBM	ON	2.80	47	02
051231	WBSC RM2 (A141)-WBM	ON	4.91	48	02
051232	WBSC RM2 (A141)-WBM	ON	4.60	47	02
051241	WBSC RM2 (A142)-WBM	ON	3.21	48	02
051242	WBSC RM2 (A142)-WBM	ON	5.59	47	02
051322	WBSC LM3 (A144)-WBM	ON	6.99	47	03
051401	DC-DC XDUCERS-FWD	ON	16.18	47	01
051402	DC-DC XDUCERS-FWD	ON	5.68	12	01
051403	DC-DC XDUCERS-FWD	ON	6.19	47	01
051404	DC-DC XDUCERS-MID L1	ON	30.57	47	01
051405	DC-DC XDUCERS-MID L1	ON	8.19	47	01
051406	DC-DC XDUCERS-MID L1	ON	5.41	48	01
051407	DC-DC XDUCERS-MID R2	ON	20.77	47	01
051408	DC-DC XDUCERS-MID R2	ON	2.00	47	01
051409	DC-DC XDUCERS-MID R2	ON	3.61	48	01
051503	SGSC FWD (A161)-WBM	ON	5.78	12	DW
051504	SGSC FWD (A161)-WBM	ON	16.20	12	DW
051612	SGSC ML1 (A162)-WBM	ON	15.39	47	01
051613	SGSC ML1 (A162)-WBM	ON	15.43	48	01
051622	SGSC ML1 (A163)-WBM	ON	30.85	48	01
051623	SGSC ML1 (A163)-WBM	ON	7.69	47	01
051652	SGSC MR2 (A169)-WBM	ON	30.85	48	02
051653	SGSC MR2 (A169)-WBM	ON	23.08	47	02
051662	SGSC ML3 (A166)-WBM	ON	30.77	47	03
051672	SGSC ML3 (A167)-WBM	ON	46.16	47	03

-- TOTAL SOURCE POWER IS NOW 19.98 KW --

037:52:44.0	212501	ENG PRESU V COIL 1LP	ON	32.25	84	01
	212502	ENG PRESU V COIL 2LP	ON	32.25	85	01
	212601	ENG PRESU V COIL 1RP	ON	32.25	86	01

Figure 6.3-1. - Continued

	212602	ENG PRESU V COIL 2RP	ON	32.25	84	OT
		-- TOTAL SOURCE POWER IS NOW	20.12 KW --			
030:54:14.0	750710	WDRND RCOR (MARS)	ON	41.56	12	AC
		-- TOTAL SOURCE POWER IS NOW	20.18 KW --			
030:54:44.0	210101	VAP ISO VLV 1 LT POD	ON	50.43	75	OT
	210102	VAP ISO VLV 2 LT POD	ON	50.48	76	OT
	210201	HE ISO VLV A LFT POD	ON	72.18	75	OT
	210202	HE ISO VLV B LFT POD	ON	72.25	76	OT
	210301	VAP ISO VLV 1 RT POD	ON	50.43	75	OT
	210302	VAP ISO VLV 2 RT POD	ON	50.47	77	OT
	210401	HE ISO VLV A RGT POD	ON	72.18	75	OT
	210402	HE ISO VLV B RGT POD	ON	72.25	77	OT
	210801	LP PTH ACT GMBL BURN	ON	59.33	75	OT
	210802	LP YAW ACT GMBL BURN	ON	59.33	75	OT
	210901	RP PTH ACT GMBL BURN	ON	59.38	77	OT
	210902	RP YAW ACT GMBL BURN	ON	59.38	77	OT
	212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	28.98	78	OT
	212402	QUAN GAGE TOT-PP-OPR	CHANGED TO	28.99	80	OT
	212701	ENG CTL V 1 COIL 1LP	ON	31.63	84	OT
	212702	ENG CTL V 1 COIL 2LP	ON	31.65	85	OT
	212801	ENG CTL V 2 COIL 1LP	ON	31.63	84	OT
	212802	ENG CTL V 2 COIL 2LP	ON	31.65	85	OT
	212901	ENG CTL V 1 COIL 1RP	ON	31.63	86	OT
	212902	ENG CTL V 1 COIL 2RP	ON	31.63	84	OT
	213001	ENG CTL V 2 COIL 1RP	ON	31.63	86	OT
	213002	ENG CTL V 2 COIL 2RP	ON	31.63	84	OT
		-- TOTAL SOURCE POWER IS NOW	21.25 KW --			
030:55:04.0	213301	ENGINE PURGE VLVE-LP	ON	63.12	84	OT
	213302	ENGINE PURGE VLVE-RP	ON	63.09	86	OT
		-- TOTAL SOURCE POWER IS NOW	21.38 KW --			
030:55:06.0	213301	ENGINE PURGE VLVE-LP	OFF	.00	84	OT
	213302	ENGINE PURGE VLVE-RP	OFF	.00	86	OT
		-- TOTAL SOURCE POWER IS NOW	21.25 KW --			
031:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.60	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.64	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.65	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.64	9	FM
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
		-- TOTAL SOURCE POWER IS NOW	21.68 KW --			
031:00:16.0	050703	WB FDM 2A (FME2)-FWD	OFF	.00	12	DW
	050704	WB FDM 2B (FME2)-FWD	OFF	.00	12	DW
	050705	WB FDM 3A (FME3)-FWD	OFF	.00	12	DW

Figure 6.3-1. - Continued

050706	WB FDM 3B (FMF3)-FWD	OFF	.00	12	DW
050801	WDBND FDM UN1-MID L1	OFF	.00	47	D1
050802	WDBND FDM UN1-MID L1	OFF	.00	48	D1
050803	WDBND FDM UN2-MID L1	OFF	.00	47	D1
050804	WDBND FDM UN2-MID L1	OFF	.00	48	D1
050805	WDBND FDM UN1-MID R2	OFF	.00	47	D2
050806	WDBND FDM UN1-MID R2	OFF	.00	48	D2
050807	WDBND FDM UN2-MID R2	OFF	.00	47	D2
050808	WDBND FDM UN2-MID R2	OFF	.00	48	D2
050812	WDBND FDM UN1-MID L3	OFF	.00	47	D3
050910	WDBND RCDR (MARS)	OFF	.00	12	AC
051020	WBSC FWD (A132)-WBM	OFF	.00	12	DW
051032	WBSC FWD (A133)-WBM	OFF	.00	12	DW
051041	WBSC FWD (A134)-WBM	OFF	.00	12	DW
051111	WBSC LM1 (A135)-WBM	OFF	.00	48	D1
051112	WBSC LM1 (A135)-WBM	OFF	.00	47	D1
051121	WBSC LM1 (A136)-WBM	OFF	.00	48	D1
051122	WBSC LM1 (A136)-WBM	OFF	.00	47	D1
051131	WBSC LM1 (A137)-WBM	OFF	.00	48	D1
051132	WBSC LM1 (A137)-WBM	OFF	.00	47	D1
051141	WBSC LM1 (A138)-WBM	OFF	.00	48	D1
051142	WBSC LM1 (A138)-WBM	OFF	.00	47	D1
051211	WBSC RM2 (A139)-WBM	OFF	.00	48	D2
051212	WBSC RM2 (A139)-WBM	OFF	.00	47	D2
051221	WBSC RM2 (A140)-WBM	OFF	.00	48	D2
051222	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051231	WBSC RM2 (A141)-WBM	OFF	.00	48	D2
051232	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051241	WBSC RM2 (A142)-WBM	OFF	.00	48	D2
051242	WBSC RM2 (A142)-WBM	OFF	.00	47	D2
051322	WBSC LM3 (A144)-WBM	OFF	.00	47	D3
051401	DC-DC XDUCERS-FWD	OFF	.00	47	OT
051402	DC-DC XDUCERS-FWD	OFF	.00	12	OT
051403	DC-DC XDUCERS-FWD	OFF	.00	47	OT
051404	DC-DC XDUCERS-MID L1	OFF	.00	47	OT
051405	DC-DC XDUCERS-MID L1	OFF	.00	47	OT
051406	DC-DC XDUCERS-MID L1	OFF	.00	48	OT
051407	DC-DC XDUCERS-MID R2	OFF	.00	47	OT
051408	DC-DC XDUCERS-MID R2	OFF	.00	47	OT
051409	DC-DC XDUCERS-MID R2	OFF	.00	48	OT
051503	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051504	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051612	SGSC ML1 (A162)-WBM	OFF	.00	47	D1
051613	SGSC ML1 (A162)-WBM	OFF	.00	48	D1
051622	SGSC ML1 (A163)-WBM	OFF	.00	48	D1
051623	SGSC ML1 (A163)-WBM	OFF	.00	47	D1
051652	SGSC MR2 (A169)-WBM	OFF	.00	48	D2
051653	SGSC MR2 (A169)-WBM	OFF	.00	47	D2
051662	SGSC ML3 (A166)-WBM	OFF	.00	47	D3
051672	SGSC ML3 (A167)-WBM	OFF	.00	47	D3
210101	VAP ISO VLV 1 LT POD	OFF	.00	75	OT
210102	VAP ISO VLV 2 LT POD	OFF	.00	76	OT
210201	HE ISO VLV A LFT POD	OFF	.00	75	OT
210202	HE ISO VLV R LFT POD	OFF	.00	76	OT
210301	VAP ISO VLV 1 RT POD	OFF	.00	75	OT
210302	VAP ISO VLV 2 RT POD	OFF	.00	77	OT
210401	HE ISO VLV A RGT POD	OFF	.00	75	OT

Figure 6.3-1. - Continued

210402	HE ISO VLV R RST POD	OFF	.00	77	OT
210801	LP PTH ACT GMBL BURN	OFF	.00	75	OT
210902	LP YAW ACT GMBL BURN	OFF	.00	75	OT
210901	RP PTH ACT GMBL BURN	OFF	.00	77	OT
210902	RP YAW ACT GMBL BURN	OFF	.00	77	OT
212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	9.41	78	OT
212402	QUAN GAGE TOT-PP-OPR	CHANGED TO	9.41	80	OT
212501	ENG PRESU V COIL 1LP	OFF	.00	84	OT
212502	ENG PRESU V COIL 2LP	OFF	.00	85	OT
212601	ENG PRESU V COIL 1RP	OFF	.00	86	OT
212602	ENG PRESU V COIL 2RP	OFF	.00	84	OT
212701	ENG CTL V 1 COIL 1LP	OFF	.00	84	OT
212702	ENG CTL V 1 COIL 2LP	OFF	.00	85	OT
212801	ENG CTL V 2 COIL 1LP	OFF	.00	84	OT
212802	ENG CTL V 2 COIL 2LP	OFF	.00	85	OT
212901	ENG CTL V 1 COIL 1RP	OFF	.00	86	OT
212902	ENG CTL V 1 COIL 2RP	OFF	.00	84	OT
213001	ENG CTL V 2 COIL 1RP	OFF	.00	86	OT
213002	ENG CTL V 2 COIL 2RP	OFF	.00	84	OT
220101	FWD THRUSTER F1F(-X)	CHANGED TO	.11	22	OT
220105	FWD THRUSTER F2F(-X)	CHANGED TO	.11	23	OT
220109	FWD THRUSTER F3F(-X)	CHANGED TO	.11	24	OT
220111	FWD THRUSTER F3L(+Y)	CHANGED TO	.11	24	OT
220201	AFT THRUSTER R1R(-Y)	CHANGED TO	.14	78	OT
220204	AFT THRUSTER R2R(-Y)	CHANGED TO	.14	80	OT
220207	AFT THRUSTER R3R(-Y)	CHANGED TO	.14	79	OT
220214	AFT THRUSTER L1L(+Y)	CHANGED TO	.14	78	OT
220217	AFT THRUSTER L2L(+Y)	CHANGED TO	.14	80	OT
220221	AFT THRUSTER L3L(+Y)	CHANGED TO	.14	79	OT

-- TOTAL SOURCE POWER IS NOW 19.63 KW --

031:19:44.3	220101	FWD THRUSTER F1F(-X)	CHANGED TO	.35	22	OT
	220105	FWD THRUSTER F2F(-X)	CHANGED TO	.35	23	OT
	220109	FWD THRUSTER F3F(-X)	CHANGED TO	.35	24	OT
	220111	FWD THRUSTER F3L(+Y)	CHANGED TO	.35	24	OT
	220201	AFT THRUSTER R1R(-Y)	CHANGED TO	.47	78	OT
	220204	AFT THRUSTER R2R(-Y)	CHANGED TO	.47	80	OT
	220207	AFT THRUSTER R3R(-Y)	CHANGED TO	.47	79	OT
	220214	AFT THRUSTER L1L(+Y)	CHANGED TO	.47	78	OT
	220217	AFT THRUSTER L2L(+Y)	CHANGED TO	.47	80	OT
	220221	AFT THRUSTER L3L(+Y)	CHANGED TO	.47	79	OT

-- TOTAL SOURCE POWER IS NOW 19.63 KW --

031:24:44.3	050703	WB FDM 2A (FMF2)-FWD	ON	26.19	12	DW
	050704	WB FDM 2B (FMF2)-FWD	ON	26.19	12	DW
	050705	WB FDM 3A (FMF3)-FWD	ON	26.19	12	DW
	050706	WB FDM 3B (FMF3)-FWD	ON	26.19	12	DW
	050801	WDBND FDM UN1-MID L1	ON	24.96	47	D1
	050802	WDBND FDM UN1-MID L1	ON	24.96	48	D1
	050803	WDBND FDM UN2-MID L1	ON	24.96	47	D1
	050804	WDBND FDM UN2-MID L1	ON	24.96	48	D1
	050805	WDBND FDM UN1-MID R2	ON	24.96	47	D2
	050806	WDBND FDM UN1-MID R2	ON	24.96	48	D2
	050807	WDBND FDM UN2-MID R2	ON	24.96	47	D2
	050808	WDBND FDM UN2-MID R2	ON	24.96	48	D2

Figure 6.3-1. - Continued

050812	WDBND FDM UM1-MID L3	ON	24.90	47	D3	
051020	WBSC FWD (A132)-WBM	ON	5.87	12	OW	
051032	WBSC FWD (A133)-WBM	ON	8.07	12	OW	
051041	WBSC FWD (A134)-WBM	ON	9.95	12	OW	
051111	WBSC LM1 (A135)-WBM	ON	2.80	48	D1	
051112	WBSC LM1 (A135)-WBM	ON	3.49	47	D1	
051121	WBSC LM1 (A136)-WBM	ON	3.49	48	D1	
051122	WBSC LM1 (A136)-WBM	ON	3.86	47	D1	
051131	WBSC LM1 (A137)-WBM	ON	5.29	48	D1	
051132	WBSC LM1 (A137)-WBM	ON	4.58	47	D1	
051141	WBSC LM1 (A138)-WBM	ON	3.89	48	D1	
051142	WBSC LM1 (A138)-WBM	ON	5.28	47	D1	
051211	WBSC RM2 (A139)-WBM	ON	2.80	48	D2	
051212	WBSC RM2 (A139)-WBM	ON	3.19	47	D2	
051221	WBSC RM2 (A140)-WBM	ON	3.19	48	D2	
051222	WBSC RM2 (A141)-WBM	ON	2.79	47	D2	
051231	WBSC RM2 (A141)-WBM	ON	4.89	48	D2	
051232	WBSC RM2 (A141)-WBM	ON	4.58	47	D2	
051241	WBSC RM2 (A142)-WBM	ON	3.19	48	D2	
051242	WBSC RM2 (A142)-WBM	ON	5.58	47	D2	
051322	WBSC LM3 (A144)-WBM	ON	6.97	47	D3	
051401	DC-DC XDUCCERS-FWD	ON	16.13	47	OT	
051402	DC-DC XDUCCERS-FWD	ON	5.66	12	OT	
051403	DC-DC XDUCCERS-FWD	ON	6.17	47	OT	
051404	DC-DC XDUCCERS-MID L1	ON	30.47	47	OT	
051405	DC-DC XDUCCERS-MID L1	ON	8.17	47	OT	
051406	DC-DC XDUCCERS-MID L1	ON	5.39	48	OT	
051407	DC-DC XDUCCERS-MID R2	ON	29.68	47	OT	
051408	DC-DC XDUCCERS-MID R2	ON	1.99	47	OT	
051409	DC-DC XDUCCERS-MID R2	ON	3.59	48	OT	
051503	SGSC FWD (A161)-WBM	ON	5.76	12	OW	
051504	SGSC FWD (A161)-WBM	ON	16.13	12	OW	
051612	SGSC ML1 (A162)-WBM	ON	15.34	47	D1	
051613	SGSC ML1 (A162)-WBM	ON	15.38	48	D1	
051622	SGSC ML1 (A163)-WBM	ON	30.75	48	D1	
051623	SGSC ML1 (A163)-WBM	ON	7.57	47	D1	
051652	SGSC MR2 (A169)-WBM	ON	30.75	48	D2	
051653	SGSC MR2 (A169)-WBM	ON	23.00	47	D2	
051652	SGSC ML3 (A166)-WBM	ON	30.67	47	D3	
051672	SGSC ML3 (A167)-WBM	ON	46.01	47	D3	
-- TOTAL SOURCE POWER IS NOW 20.41 KW --						
031:27:44.0	212501	ENG PRESU V COIL 1LP	ON	32.14	84	OT
	212502	ENG PRESU V COIL 2LP	ON	32.14	85	OT
	212601	ENG PRESU V COIL 1RP	ON	32.14	86	OT
	212602	ENG PRESU V COIL 2RP	ON	32.14	84	OT
-- TOTAL SOURCE POWER IS NOW 20.55 KW --						
031:29:14.0	050910	WDBND PCDR (MARS)	ON	61.31	12	AC
-- TOTAL SOURCE POWER IS NOW 20.61 KW --						
031:29:44.0	210101	VAP ISO VLV 1 LT POD	ON	50.27	75	OT
	210102	VAP ISO VLV 2 LT POD	ON	59.32	76	OT
	210201	HE ISO VLV A LFT POD	ON	71.95	75	OT

Figure 6.3-1: - Continued

210202	HE ISO VLV R LFT POD	ON	72.02	76	OT
210301	VAP ISO VLV 1 RT POD	ON	50.27	75	OT
210302	VAP ISO VLV 2 RT POD	ON	50.31	77	OT
210401	HE ISO VLV A RGT POD	ON	71.95	75	OT
210402	HE ISO VLV B RGT POD	ON	72.01	77	OT
210801	LP PTH ACT GMBL BURN	ON	59.14	75	OT
210802	LP YAW ACT GMBL BURN	ON	59.14	75	OT
210901	RP PTH ACT GMBL BURN	ON	59.19	77	OT
210902	RP YAW ACT GMBL BURN	ON	59.19	77	OT
212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	28.88	78	OT
212402	QUAN GAGE TOT-RP-OPR	CHANGED TO	28.89	80	OT
212701	ENG CTL V 1 COIL 1LP	ON	31.53	84	OT
212702	ENG CTL V 1 COIL 2LP	ON	31.54	85	OT
212801	ENG CTL V 2 COIL 1LP	ON	31.53	84	OT
212802	ENG CTL V 2 COIL 2LP	ON	31.54	85	OT
212901	ENG CTL V 1 COIL 1RP	ON	31.53	86	OT
212902	ENG CTL V 1 COIL 2RP	ON	31.53	84	OT
213001	ENG CTL V 2 COIL 1RP	ON	31.53	86	OT
213002	ENG CTL V 2 COIL 2RP	ON	31.53	84	OT

-- TOTAL SOURCE POWER IS NOW 21.68 KW --

031:30:04.0	213301	ENGINE PURGE VLVE-LP	ON	62.91	84	OT
	213302	ENGINE PURGE VLVE-RP	ON	62.85	86	OT

-- TOTAL SOURCE POWER IS NOW 21.81 KW --

031:30:06.0	213301	ENGINE PURGE VLVE-LP	OFF	.00	84	OT
	213302	ENGINE PURGE VLVE-RP	OFF	.00	86	OT

-- TOTAL SOURCE POWER IS NOW 21.68 KW --

031:30:16.0	050703	WB FDM 2A (FMF2)-FWD	OFF	.00	12	DW
	050704	WB FDM 2B (FMF2)-FWD	OFF	.00	12	DW
	050705	WB FDM 3A (FMF3)-FWD	OFF	.00	12	DW
	050706	WB FDM 3B (FMF3)-FWD	OFF	.00	12	DW
	050801	WDBND FDM UN1-MID L1	OFF	.00	47	D1
	050802	WDBND FDM UN1-MID L1	OFF	.00	48	D1
	050803	WDBND FDM UN2-MID L1	OFF	.00	47	D1
	050804	WDBND FDM UN2-MID L1	OFF	.00	48	D1
	050805	WDBND FDM UN1-MID R2	OFF	.00	47	D2
	050806	WDBND FDM UN1-MID R2	OFF	.00	48	D2
	050807	WDBND FDM UN2-MID R2	OFF	.00	47	D2
	050808	WDBND FDM UN2-MID R2	OFF	.00	48	D2
	050812	WDBND FDM UN1-MID L3	OFF	.00	47	D3
	050913	WDBND RCDR (MAPS)	OFF	.00	12	AC
	051020	WBSC FWD (A132)-WBM	OFF	.00	12	DW
	051032	WBSC FWD (A133)-WBM	OFF	.00	12	DW
	051041	WBSC FWD (A134)-WBM	OFF	.00	12	DW
	051111	WBSC LM1 (A135)-WBM	OFF	.00	48	D1
	051112	WBSC LM1 (A135)-WBM	OFF	.00	47	D1
	051121	WBSC LM1 (A136)-WBM	OFF	.00	48	D1
	051122	WBSC LM1 (A136)-WBM	OFF	.00	47	D1
	051131	WBSC LM1 (A137)-WBM	OFF	.00	48	D1
	051132	WBSC LM1 (A137)-WBM	OFF	.00	47	D1
	051141	WBSC LM1 (A138)-WBM	OFF	.00	48	D1
	051142	WBSC LM1 (A138)-WBM	OFF	.00	47	D1

Figure 6.3-1. - Continued

051211	WBSC RM2 (A139)-WBM	OFF	.00	46	D2
051212	WBSC RM2 (A139)-WBM	OFF	.00	47	D2
051221	WBSC RM2 (A140)-WBM	OFF	.00	48	D2
051222	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051231	WBSC RM2 (A141)-WBM	OFF	.00	46	D2
051232	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051241	WBSC RM2 (A142)-WBM	OFF	.00	46	D2
051242	WBSC RM2 (A142)-WBM	OFF	.00	47	D2
051322	WBSC LM3 (A144)-WBM	OFF	.00	47	D3
051401	DC-DC XDUCEPS-FWD	OFF	.00	47	OT
051402	DC-DC XDUCEPS-FWD	OFF	.00	12	OT
051403	DC-DC XDUCEPS-FWD	OFF	.00	47	OT
051404	DC-DC XDUCEPS-MID L1	OFF	.00	47	OT
051405	DC-DC XDUCEPS-MID L1	OFF	.00	47	OT
051406	DC-DC XDUCEPS-MID L1	OFF	.00	48	OT
051407	DC-DC XDUCEPS-MID R2	OFF	.00	47	OT
051408	DC-DC XDUCEPS-MID R2	OFF	.00	47	OT
051409	DC-DC XDUCEPS-MID R2	OFF	.00	48	OT
051503	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051504	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051612	SGSC ML1 (A162)-WBM	OFF	.00	47	D1
051613	SGSC ML1 (A162)-WBM	OFF	.00	48	D1
051622	SGSC ML1 (A163)-WBM	OFF	.00	48	D1
051623	SGSC ML1 (A163)-WBM	OFF	.00	47	D1
051652	SGSC MR2 (A169)-WBM	OFF	.00	48	D2
051653	SGSC MR2 (A169)-WBM	OFF	.00	47	D2
051662	SGSC ML3 (A166)-WBM	OFF	.00	47	D3
051672	SGSC ML3 (A167)-WBM	OFF	.00	47	D3
210101	VAP ISO VLV 1 LT POD	OFF	.00	75	OT
210102	VAP ISO VLV 2 LT POD	OFF	.00	76	OT
210201	HE ISO VLV A LFT POD	OFF	.00	75	OT
210202	HE ISO VLV A LFT POD	OFF	.00	76	OT
210301	VAP ISO VLV 1 RT POD	OFF	.00	75	OT
210302	VAP ISO VLV 2 RT POD	OFF	.00	77	OT
210401	HE ISO VLV A RGT POD	OFF	.00	75	OT
210402	HE ISO VLV A RGT POD	OFF	.00	77	OT
210801	LP PTH ACT GMBL BURN	OFF	.00	75	OT
210802	LP YAW ACT GMBL BURN	OFF	.00	75	OT
210901	RP PTH ACT GMBL BURN	OFF	.00	77	OT
210902	RP YAW ACT GMBL BURN	OFF	.00	77	OT
212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	9.41	78	OT
212402	QUAN GAGE TOT-PP-OPR	CHANGED TO	9.41	80	OT
212501	ENG PRESU V COIL 1LP	OFF	.00	84	OT
212502	ENG PRESU V COIL 2LP	OFF	.00	85	OT
212601	ENG PRESU V COIL 1RP	OFF	.00	86	OT
212602	ENG PRESU V COIL 2RP	OFF	.00	84	OT
212701	ENG CTL V 1 COIL 1LP	OFF	.00	84	OT
212702	ENG CTL V 1 COIL 2LP	OFF	.00	85	OT
212801	ENG CTL V 2 COIL 1LP	OFF	.00	84	OT
212802	ENG CTL V 2 COIL 2LP	OFF	.00	85	OT
212901	ENG CTL V 1 COIL 1RP	OFF	.00	86	OT
212902	ENG CTL V 1 COIL 2RP	OFF	.00	84	OT
213001	ENG CTL V 2 COIL 1RP	OFF	.00	86	OT
213002	ENG CTL V 2 COIL 2RP	OFF	.00	84	OT
220101	FWD THRUSTER F1F(-X)	CHANGED TO	.11	22	OT
220105	FWD THRUSTER F2F(-X)	CHANGED TO	.11	23	OT
220109	FWD THRUSTER F3F(-X)	CHANGED TO	.11	24	OT

Figure 6.3-1. - Continued

	220111	FWD THRUSTER F3L(+Y)	CHANGED TO	.11	24	OT
	220201	AFT THRUSTER R1R(-Y)	CHANGED TO	.14	78	OT
	220204	AFT THRUSTER R2R(-Y)	CHANGED TO	.14	80	OT
	220207	AFT THRUSTER R3R(-Y)	CHANGED TO	.14	79	OT
	220214	AFT THRUSTER L1L(+Y)	CHANGED TO	.14	78	OT
	220217	AFT THRUSTER L2L(+Y)	CHANGED TO	.14	80	OT
	220221	AFT THRUSTER L3L(+Y)	CHANGED TO	.14	79	OT
-- TOTAL SOURCE POWER IS NOW 19.63 KW --						
031:36:50.4	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	7	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 17.72 KW --						
031:50:00.0	402311	FOOD WARMER-OFT PHA	ON	265.56	217	AC
	402312	FOOD WARMER-OFT PHC	ON	265.37	219	AC
-- TOTAL SOURCE POWER IS NOW 18.28 KW --						
032:00:16.0	011601	THC-LH	OFF	.00	19	AC
	011701	RHC-LH	OFF	.00	19	AC
	011702	RHC-RH	OFF	.00	20	AC
	011801	RPTA-LH	OFF	.00	19	AC
	011802	RPTA-RH	OFF	.00	20	AC
	011901	SBTC-LH	OFF	.00	19	AC
	011902	SBTC-RH	OFF	.00	20	AC
	070105	GPC CPU#5-RUN	CHANGED TO	308.00	31	A2
	070205	GPC IOP#5-RUN	CHANGED TO	313.00	31	A2
-- TOTAL SOURCE POWER IS NOW 18.23 KW --						
032:08:00.0	011501	THC-LH	ON	3.30	19	AC
	011701	RHC-LH	ON	5.01	19	AC
	011702	RHC-RH	ON	5.01	20	AC
	011801	PPTA-LH	ON	1.28	19	AC
	011802	RPTA-RH	ON	1.28	20	AC
	011901	SBTC-LH	ON	1.71	19	AC
	011902	SBTC-RH	ON	1.71	20	AC
-- TOTAL SOURCE POWER IS NOW 18.25 KW --						
032:10:00.0	220101	FWD THRUSTER F1F(-X)	CHANGED TO	17.74	22	OT
	220105	FWD THRUSTER F2F(-X)	CHANGED TO	17.74	23	OT
	220109	FWD THRUSTER F3F(-X)	CHANGED TO	17.74	24	OT
	220111	FWD THRUSTER F3L(+Y)	CHANGED TO	17.74	24	OT
	220201	AFT THRUSTER R1R(-Y)	CHANGED TO	23.66	78	OT

Figure 6.3-J. - Continued

220204	AFT THRUSTER R2R(-Y)	CHANGED TO	23.67	80	OT
220207	AFT THRUSTER R3R(-Y)	CHANGED TO	23.67	79	OT
220214	AFT THRUSTER L1L(+Y)	CHANGED TO	23.66	78	OT
220217	AFT THRUSTER L2L(+Y)	CHANGED TO	23.67	80	OT
220221	AFT THRUSTER L3L(+Y)	CHANGED TO	23.67	79	OT

-- TOTAL SOURCE POWER IS NOW 18.47 KW --

032:12:00.0						
220101	FWD THRUSTER F1F(-X)	CHANGED TO	.11	22	OT	
220105	FWD THRUSTER F2F(-X)	CHANGED TO	.11	23	OT	
220109	FWD THRUSTER F3F(-X)	CHANGED TO	.11	24	OT	
220111	FWD THRUSTER F3L(+Y)	CHANGED TO	.11	24	OT	
220201	AFT THRUSTER R1R(-Y)	CHANGED TO	.14	78	OT	
220204	AFT THRUSTER R2R(-Y)	CHANGED TO	.14	80	OT	
220207	AFT THRUSTER R3R(-Y)	CHANGED TO	.14	79	OT	
220214	AFT THRUSTER L1L(+Y)	CHANGED TO	.14	78	OT	
220217	AFT THRUSTER L2L(+Y)	CHANGED TO	.14	80	OT	
220221	AFT THRUSTER L3L(+Y)	CHANGED TO	.14	79	OT	

-- TOTAL SOURCE POWER IS NOW 18.25 KW --

032:14:00.0						
011601	THC-LH	OFF	.00	19	AC	
011701	RHC-LH	OFF	.00	19	AC	
011702	RHC-RH	OFF	.00	20	AC	
011801	RPTA-LH	OFF	.00	19	AC	
011802	RPTA-RH	OFF	.00	20	AC	
011901	SBTC-LH	OFF	.00	19	AC	
011902	SBTC-RH	OFF	.00	20	AC	

-- TOTAL SOURCE POWER IS NOW 18.23 KW --

032:19:30.0						
061803	H2O2 CRYO ASY1A-H2CY	OFF	.00	7	FM	
061804	H2O2 CRYO ASY1B-H2CY	OFF	.00	9	FM	
061813	H2O2 CRYO ASY2A-H2CY	OFF	.00	8	FM	
061814	H2O2 CRYO ASY2B-H2CY	OFF	.00	9	FM	
311901	H2 TANK 1 HEATER A	OFF	.00	7	OT	
311902	H2 TANK 1 HEATER B	OFF	.00	9	OT	
311903	H2 TANK 2 HEATER A	OFF	.00	9	OT	
311904	H2 TANK 2 HEATER B	OFF	.00	8	OT	

-- TOTAL SOURCE POWER IS NOW 17.79 KW --

032:20:00.0						
211201	FUEL CROSSFD VL A-LP	ON	96.57	201	OT	
211202	FUEL CROSSFD VL B-LP	ON	95.09	202	OT	
211301	OXID CROSSFD VL A-LP	ON	96.57	201	OT	
211302	OXID CROSSFD VL B-LP	ON	95.09	202	OT	
221001	TNK ISO VL 1/2-L AFT	ON	194.44	203	OT	
221002	TNK ISO VL 3/4/5/A-LA	ON	193.15	201	OT	
221003	TNK ISO VL 3/4/5/B-LA	ON	190.17	202	OT	
221101	TNK ISO VL 1/2-R AFT	ON	194.44	203	OT	
221102	TNK ISO VL 3/4/5/A-RA	ON	193.15	201	OT	
221103	TNK ISO VL 3/4/5/B-RA	ON	190.17	202	OT	
222501	XFEED VLV 1/2-L AFT	ON	194.44	203	OT	
222502	XFEED VLV 3/4/5-L AFT	ON	190.17	202	OT	
222601	XFEED VLV 1/2-R AFT	ON	194.44	203	OT	
222602	XFEED VLV 3/4/5-R AFT	ON	193.15	201	OT	

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Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 20.34 KW --

032:20:01.5	211201	FUEL CROSSED VL A-LP	OFF	.00	201	OT
	211202	FUEL CROSSED VL B-LP	OFF	.00	202	OT
	211301	OXID CROSSED VL A-LP	OFF	.00	201	OT
	211302	OXID CROSSED VL B-LP	OFF	.00	202	OT
	221001	TNK ISO VL 1/2-L AFT	OFF	.00	203	OT
	221002	TK ISO VL 3/4/5/A-LA	OFF	.00	201	OT
	221003	TK ISO VL 3/4/5/B-LA	OFF	.00	202	OT
	221101	TNK ISO VL 1/2-R AFT	OFF	.00	203	OT
	221102	TK ISO VL 3/4/5/A-RA	OFF	.00	201	OT
	221103	TK ISO VL 3/4/5/B-RA	OFF	.00	202	OT
	222501	XFEED VLV 1/2-L AFT	OFF	.00	203	OT
	222502	XFEED VLV 3/4/5-L AFT	OFF	.00	202	OT
	222601	XFEED VLV 1/2-R AFT	OFF	.00	203	OT
	222602	XFEED VLV 3/4/5-R AFT	OFF	.00	201	OT

-- TOTAL SOURCE POWER IS NOW 17.79 KW --

033:20:30.3	033501	MID DK FLDLT 1	CHANGED TO	17.06	4	AC
	033502	MID DK FLDLT 2	CHANGED TO	17.15	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	17.14	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	17.14	6	AC
	033506	MID DK FLDLT 6	CHANGED TO	17.15	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	17.14	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	17.06	4	AC

-- TOTAL SOURCE POWER IS NOW 17.90 KW --

033:50:00.0	211201	FUEL CROSSED VL A-LP	ON	96.57	201	OT
	211202	FUEL CROSSED VL B-LP	ON	95.09	202	OT
	211301	OXID CROSSED VL A-LP	ON	96.57	201	OT
	211302	OXID CROSSED VL B-LP	ON	95.09	202	OT
	221001	TNK ISO VL 1/2-L AFT	ON	194.44	203	OT
	221002	TK ISO VL 3/4/5/A-LA	ON	193.15	201	OT
	221003	TK ISO VL 3/4/5/B-LA	ON	190.17	202	OT
	221101	TNK ISO VL 1/2-R AFT	ON	194.44	203	OT
	221102	TK ISO VL 3/4/5/A-RA	ON	193.15	201	OT
	221103	TK ISO VL 3/4/5/B-RA	ON	190.17	202	OT
	222501	XFEED VLV 1/2-L AFT	ON	194.44	203	OT
	222502	XFEED VLV 3/4/5-L AFT	ON	190.17	202	OT
	222601	XFEED VLV 1/2-R AFT	ON	194.44	203	OT
	222602	XFEED VLV 3/4/5-R AFT	ON	193.15	201	OT

-- TOTAL SOURCE POWER IS NOW 20.45 KW --

033:50:01.5	211201	FUEL CROSSED VL A-LP	OFF	.00	201	OT
	211202	FUEL CROSSED VL B-LP	OFF	.00	202	OT
	211301	OXID CROSSED VL A-LP	OFF	.00	201	OT
	211302	OXID CROSSED VL B-LP	OFF	.00	202	OT
	221001	TNK ISO VL 1/2-L AFT	OFF	.00	203	OT
	221002	TK ISO VL 3/4/5/A-LA	OFF	.00	201	OT
	221003	TK ISO VL 3/4/5/B-LA	OFF	.00	202	OT
	221101	TNK ISO VL 1/2-R AFT	OFF	.00	203	OT
	221102	TK ISO VL 3/4/5/A-RA	OFF	.00	201	OT
	221103	TK ISO VL 3/4/5/B-RA	OFF	.00	202	OT
	222501	XFEED VLV 1/2-L AFT	OFF	.00	203	OT

Figure 6.3-1. - Continued

	222502	XFEED V 3/4/5-L AFT	OFF	.00	202	OT
	222601	XFEED VLV 1/2-R AFT	OFF	.00	203	OT
	222602	XFEED V 3/4/5-R AFT	OFF	.00	201	OT
		-- TOTAL SOURCE POWER IS NOW 17.90 KW --				
033:55:00.0	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC
		-- TOTAL SOURCE POWER IS NOW 17.35 KW --				
034:15:00.0	030102	ADT =2 FWD PH	OFF	.00	20	AC
	032202	DDU =2 FWD PH	OFF	.00	20	HX
	032702	CRT DU =2 - RF	OFF	.00	23	HX
	032802	DEU =2	OFF	.00	23	HX
	033293	INSTR LTS RIGHT	OFF	.00	211	AC
		-- TOTAL SOURCE POWER IS NOW 16.83 KW --				
034:20:00.0	401302	H2O PUMP - LOOP 11B1	ON	256.34	202	WC
		-- TOTAL SOURCE POWER IS NOW 17.09 KW --				
034:26:00.0	401302	H2O PUMP - LOOP 11B1	OFF	.00	202	WC
		-- TOTAL SOURCE POWER IS NOW 16.83 KW --				
034:50:00.0	033501	MID DK FLDLT 1	CHANGED TO	1.72	4	AC
	033502	MID DK FLDLT 2	CHANGED TO	1.74	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	1.73	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	1.73	6	AC
	033506	MID DK FLDLT 6	CHANGED TO	1.74	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	1.73	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	1.72	4	AC
		-- TOTAL SOURCE POWER IS NOW 16.71 KW --				
035:00:00.0	033800	WASTE MGT COMPARTMNT	ON	17.18	4	AC
	401600	SOL COL SLINGR	ON	62.47	4	AC
	401701	WTR SEP WASTE SYS 1	ON	261.54	201	AC
		-- TOTAL SOURCE POWER IS NOW 17.07 KW --				
035:12:00.0	401600	SOL COL SLINGR	OFF	.00	4	AC
		-- TOTAL SOURCE POWER IS NOW 17.00 KW --				
035:15:00.0	010301	STAR TRACKER - Z AXIS	ON	16.66	16	OT
	600100	CREW OPTC ALIGN SGHT	ON	16.34	217	AC
		-- TOTAL SOURCE POWER IS NOW 17.04 KW --				
035:24:00.0	033800	WASTE MGT COMPARTMNT	OFF	.00	4	AC
	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
		-- TOTAL SOURCE POWER IS NOW 16.75 KW --				

Figure 6.3-1. - Continued

035:45:00.0	010301	STAR TRACKED -Z AXIS	OFF	.00	16	OT
-- TOTAL SOURCE POWER IS NOW 16.73 KW --						
035:59:00.0	305101	GH2 PRG LNE HTR AUT	ON	40.70	48	OT
	305201	GH2 PRG LNE HTR AUT	ON	51.60	48	OT
-- TOTAL SOURCE POWER IS NOW 16.83 KW --						
036:00:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.77	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.79	9	FM
	061805	H202 CRYO ASY1A-O2CY	ON	25.97	7	FM
	061806	H202 CRYO ASY1B-O2CY	ON	26.04	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.80	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.79	9	FM
	061815	H202 CRYO ASY2A-O2CY	ON	26.04	8	FM
	061816	H202 CRYO ASY2B-O2CY	ON	26.04	9	FM
	311701	O2 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	O2 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	O2 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	O2 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	O2 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	O2 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	O2 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	O2 TANK 2 HEATER B2	ON	222.70	8	OT
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
	600100	CREW OPTIC ALIGN SGHT	OFF	.00	217	AC
-- TOTAL SOURCE POWER IS NOW 19.14 KW --						
036:07:21.0	035500	C+W STATUS DISPLAY	ON	19.90	43	AC
-- TOTAL SOURCE POWER IS NOW 19.16 KW --						
036:07:25.0	035500	C+W STATUS DISPLAY	OFF	.00	43	AC
-- TOTAL SOURCE POWER IS NOW 19.14 KW --						
036:15:00.0	300601	FCP1 O2 PRG/DUAL FDV	ON	10.90	47	OT
	300701	FCP1 GH2 PURGE VALVE	ON	10.90	47	OT
-- TOTAL SOURCE POWER IS NOW 19.17 KW --						
036:17:00.0	300601	FCP1 O2 PRG/DUAL FDV	OFF	.00	47	OT
	300602	FCP2 O2 PRG/DUAL FDV	ON	11.00	48	OT
	300701	FCP1 GH2 PURGE VALVE	OFF	.00	47	OT
	300702	FCP2 GH2 PURGE VALVE	ON	11.00	48	OT
-- TOTAL SOURCE POWER IS NOW 19.17 KW --						
036:19:00.0	300602	FCP2 O2 PRG/DUAL FDV	OFF	.00	48	OT
	300603	FCP3 O2 PRG/DUAL FDV	ON	11.04	49	OT
	300702	FCP2 GH2 PURGE VALVE	OFF	.00	48	OT
	300703	FCP3 GH2 PURGE VALVE	ON	11.04	49	OT

Figure 6.3-1. - Continued

-- TOTAL SOURCE POWER IS NOW 19.17 KW --						
036:21:30.0	330603	FCP2 02 PRG/QUAL FDU	OFF	.00	49	OT
	300703	FCP3 0H2 PURGE VALVE	OFF	.00	49	OT
-- TOTAL SOURCE POWER IS NOW 19.14 KW --						
036:25:00.0	033800	WASTE MGT COMPARTMNT	ON	16.85	4	AC
	034205	CONSOLE FLDLT-CMDIL	ON	17.56	16	AC
	401701	WTR SEP WASTE SYS 1	ON	261.54	201	AC
-- TOTAL SOURCE POWER IS NOW 19.46 KW --						
036:43:00.0	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
-- TOTAL SOURCE POWER IS NOW 19.18 KW --						
036:55:00.0	033800	WASTE MGT COMPARTMNT	OFF	.00	4	AC
-- TOTAL SOURCE POWER IS NOW 19.16 KW --						
037:10:00.0	010302	STAR TRACKER -Y AXIS	OFF	.00	17	OT
	024201	AUDIO TERM UN-PLT RT	OFF	.00	42	AC
	024202	AUDIO TERM UN-CDR LT	OFF	.00	41	AC
	024203	AUDIO TERM UNIT-MSS	OFF	.00	10	AC
	024204	AUDIO TERM UNIT-PS	OFF	.00	15	AC
	024207	AUDIO TERM UNIT-MD-1	ON	3.65	11	AC
	024701	SPKR MIKE UNIT -OS	OFF	.00	10	AC
	024901	HOSET INTF UNIT-PLT	OFF	.00	42	AC
	024902	HOSET INTF UNIT-CHDR	OFF	.00	41	AC
	030101	ADI =1 FWD LH	OFF	.00	19	AC
	032201	DDU =1 FWD LH	OFF	.00	19	HX
	032701	CRT DU =1 - LF	OFF	.00	22	HX
	032703	CRT DU =3 - CF	OFF	.00	24	HX
	032704	CRT DU =4 - MSS	ON	20.29	24	HX
	032801	DEU =1	OFF	.00	22	HX
	032803	DEU =3	OFF	.00	24	HX
	033101	PANEL LTS - LEFT/CTR	OFF	.00	211	AC
	033102	PANEL LTS - LFT/OVHD	OFF	.00	212	AC
	033103	PANEL LIGHTS - RIGHT	OFF	.00	215	AC
	033107	PANEL LTS - RHT/OVHD	OFF	.00	214	AC
	033201	INSTR LTS - LEFT/CTR	OFF	.00	218	AC
	033202	INSTR LTS - OVERHEAD	OFF	.00	215	AC
	033501	MID DK FLDLT 1	OFF	.00	4	AC
	033502	MID DK FLDLT 2	OFF	.00	5	AC
	033503	MID DK FLDLT 3	OFF	.00	6	AC
	033504	MID DK FLDLT 4	OFF	.00	6	AC
	033506	MID DK FLDLT 6	OFF	.00	5	AC
	033507	MID DK FLDLT 7	OFF	.00	6	AC
	033508	MID DK FLDLT 8	OFF	.00	4	AC
	033800	WASTE MGT COMPARTMNT	ON	17.10	4	AC
	034201	FLIGHT DK FLDLT-OS	ON	4.95	11	AC
	034206	CONSOLE FLDLT-CMDIL	CHANGED TO	8.94	16	AC
-- TOTAL SOURCE POWER IS NOW 17.73 KW --						

Figure 6.3-1. - Continued

037:16:00.0	305101	G02 PRG LNE HTR AUT	OFF	.00	48	OT
	305201	GH2 PRG LNE HTR AUT	OFF	.00	48	OT
TOTAL SOURCE POWER IS NOW 17.63 KW						
037:19:30.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 17.20 KW --						
037:30:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.87	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.89	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.90	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.89	9	FM
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
-- TOTAL SOURCE POWER IS NOW 17.63 KW --						
037:36:50.4	061805	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311701	O2 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	O2 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	O2 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	O2 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	O2 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	O2 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	O2 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	O2 TANK 2 HEATER B2	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 15.73 KW --						
039:18:00.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
TOTAL SOURCE POWER IS NOW 15.30 KW						
038:20:00.0	401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
TOTAL SOURCE POWER IS NOW 15.56 KW						

Figure 6.3-1. - Continued

038:26:00.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
-- TOTAL SOURCE POWER IS NOW 15.30 KW --						
039:00:00.0	061805	H202 CRYO ASY1A-02CY	ON	26.46	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	26.53	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	26.50	8	FM
	061816	H202 CRYO ASY2B-02CY	ON	26.53	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
-- TOTAL SOURCE POWER IS NOW 17.20 KW --						
039:46:48.0	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 15.30 KW --						
042:20:00.0	401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
-- TOTAL SOURCE POWER IS NOW 15.56 KW --						
042:26:00.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
-- TOTAL SOURCE POWER IS NOW 15.30 KW --						
042:30:00.0	061803	H202 CRYO ASY1A-H2CY	ON	6.99	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	7.03	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	7.02	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	7.03	9	FM
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT
-- TOTAL SOURCE POWER IS NOW 15.73 KW --						
043:18:00.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM

Figure 6.3-1. - Continued

311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
311904	H2 TANK 2 HEATER B	OFF	.00	8	OT

-- TOTAL SOURCE POWER IS NOW 15.30 KW --

044:20:00.0	402311	FOOD WARMER-OFT PHA	ON	265.56	217	AC
	402312	FOOD WARMER-OFT PHC	ON	265.37	219	AC

-- TOTAL SOURCE POWER IS NOW 15.85 KW --

045:00:00.0	061805	H202 CRYO ASY1A-02CY	ON	26.32	7	FM
	061806	H202 CRYO ASY1B-02CY	ON	26.39	9	FM
	061815	H202 CRYO ASY2A-02CY	ON	26.42	8	FM
	061815	H202 CRYO ASY2B-02CY	ON	26.39	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT

-- TOTAL SOURCE POWER IS NOW 17.75 KW --

045:10:00.0	010302	STAR TRACKER - Y AXIS	ON	16.64	17	OT
	024201	AUDIO TERM UN-PLT RT	ON	3.46	42	AC
	024202	AUDIO TERM UN-COR LT	ON	3.49	41	AC
	024203	AUDIO TERM UNIT-MSS	ON	3.57	10	AC
	024204	AUDIO TERM UNIT-PS	ON	3.73	15	AC
	024207	AUDIO TERM UNIT-MD=1	OFF	.00	11	AC
	024701	SPKR MIKE UNIT -OS	ON	1.80	10	AC
	024901	HDSET INTF UNIT-PLT	ON	.70	42	AC
	024902	HDSET INTF UNIT-CMDR	ON	.70	41	AC
	030101	ADI =1 FWD LH	ON	18.05	19	AC
	032201	DDU =1 FWD LH	ON	120.00	19	HX
	032701	CRT DU =1 - LF	ON	88.84	22	HX
	032703	CRT DU =3 - CF	ON	88.84	24	HX
	032704	CRT DU =4 - MSS	OFF	.00	24	HX
	032801	DEU =1	ON	202.00	22	HX
	032803	DEU =3	ON	202.00	24	HX
	033101	PANEL LTS - LEFT/CTR	ON	170.85	211	AC
	033102	PANEL LTS - LFT/OVHD	ON	155.13	212	AC
	033103	PANEL LIGHTS - RIGHT	ON	116.46	215	AC
	033107	PANEL LTS - RHT/OVHD	ON	115.61	214	AC
	033201	INSTR LTS - LEFT/CTR	ON	50.62	218	AC
	033202	INSTR LTS - OVERHEAD	ON	24.08	215	AC
	033501	MID DK FLDLT 1	ON	1.68	4	AC
	033502	MID DK FLDLT 2	ON	1.69	5	AC
	033503	MID DK FLDLT 3	ON	1.69	6	AC
	033504	MID DK FLDLT 4	ON	1.69	6	AC
	033505	MID DK FLDLT 6	ON	1.69	5	AC
	033507	MID DK FLDLT 7	ON	1.69	6	AC
	033508	MID DK FLDLT 8	ON	1.68	4	AC
	034201	FLIGHT DK FLDLTS-OS	OFF	.00	11	AC

Figure 6.3-J. - Continued

	334206	CONSOLE FLDLT-CMD(L)	CHANGED TO	17.54	16	AC
	070901	MM =1 TAPE OPER	CHANGED TO	77.00	22	W1
	070902	MM =2 TAPE OPER	CHANGED TO	77.04	23	W2
	431701	WTR SEP WASTE SYS 1	ON	261.54	201	AC
		-- TOTAL SOURCE POWER IS NOW 19.61 KW --				
045:11:00.0	070901	MM =1 TAPE OPER	CHANGED TO	19.77	22	W1
	070902	MM =2 TAPE OPER	CHANGED TO	19.78	23	W2
		-- TOTAL SOURCE POWER IS NOW 19.48 KW --				
045:28:00.0	431701	WTR SEP WASTE SYS 1	OFF	.00	201	AC
		-- TOTAL SOURCE POWER IS NOW 19.21 KW --				
045:40:00.0	333800	WASTE MGT COMPARTMNT	OFF	.00	4	AC
		-- TOTAL SOURCE POWER IS NOW 19.19 KW --				
045:45:00.0	310301	STAR TRACKER -7 AXIS	ON	16.64	16	OT
	600100	CREW OPTIC ALIGN SGHT	ON	16.36	217	AC
		TOTAL SOURCE POWER IS NOW 19.22 KW				
045:46:48.0	061805	H202 CRYO ASY1A-02CY	OFF	.00	7	FM
	061806	H202 CRYO ASY1B-02CY	OFF	.00	9	FM
	061815	H202 CRYO ASY2A-02CY	OFF	.00	8	FM
	061816	H202 CRYO ASY2B-02CY	OFF	.00	9	FM
	311701	02 TANK 1 HEATER A1	OFF	.00	7	OT
	311702	02 TANK 1 HEATER A2	OFF	.00	7	OT
	311703	02 TANK 2 HEATER A1	OFF	.00	9	OT
	311704	02 TANK 2 HEATER A2	OFF	.00	9	OT
	311801	02 TANK 1 HEATER B1	OFF	.00	9	OT
	311802	02 TANK 1 HEATER B2	OFF	.00	9	OT
	311803	02 TANK 2 HEATER B1	OFF	.00	8	OT
	311804	02 TANK 2 HEATER B2	OFF	.00	8	OT
		-- TOTAL SOURCE POWER IS NOW 17.32 KW --				
045:49:00.0	305101	G02 PRG LNE HTR AUT	ON	40.70	48	OT
	305201	GH2 PRG LNE HTR AUT	ON	51.60	48	OT
		TOTAL SOURCE POWER IS NOW 17.42 KW				
045:50:00.0	333501	MID DK FLDLT 1	CHANGED TO	17.12	4	AC
	333502	MID DK FLDLT 2	CHANGED TO	17.20	5	AC
	333503	MID DK FLDLT 3	CHANGED TO	17.20	6	AC
	333504	MID DK FLDLT 4	CHANGED TO	17.20	6	AC
	333506	MID DK FLDLT 6	CHANGED TO	17.20	5	AC
	333507	MID DK FLDLT 7	CHANGED TO	17.20	6	AC
	333508	MID DK FLDLT 8	CHANGED TO	17.12	4	AC
		-- TOTAL SOURCE POWER IS NOW 17.53 KW --				
045:55:00.0	034206	CONSOLE FLDLT-CMD(L)	OFF	.00	16	AC

Figure 6.3-1. - Continued

			-- TOTAL SOURCE POWER IS NOW 17.51 KW --			
046:00:00.0	505401	WSB VENT NOZZ HTR 1A	ON	73.60	65	OT
	505403	WSB VENT NOZZ HTR 2A	ON	61.50	63	OT
	505405	WSB VENT NOZZ HTR 3A	ON	59.10	64	OT
			-- TOTAL SOURCE POWER IS NOW 17.71 KW --			
046:05:00.0	300601	FCP1 02 PRG/DUAL FDV	ON	11.03	47	OT
	300701	FCP1 GH2 PURGE VALVE	ON	11.03	47	OT
			-- TOTAL SOURCE POWER IS NOW 17.74 KW --			
046:07:00.0	300601	FCP1 02 PRG/DUAL FDV	OFF	.00	47	OT
	300602	FCP2 02 PRG/DUAL FDV	ON	11.13	48	OT
	300701	FCP1 GH2 PURGE VALVE	OFF	.00	47	OT
	300702	FCP2 GH2 PURGE VALVE	ON	11.13	48	OT
			-- TOTAL SOURCE POWER IS NOW 17.74 KW --			
046:09:00.0	300602	FCP2 02 PRG/DUAL FDV	OFF	.00	48	OT
	300603	FCP3 02 PRG/DUAL FDV	ON	11.20	49	OT
	300702	FCP1 GH2 PURGE VALVE	OFF	.00	48	OT
	300703	FCP3 GH2 PURGE VALVE	ON	11.20	49	OT
			-- TOTAL SOURCE POWER IS NOW 17.74 KW --			
046:11:00.0	300603	FCP3 02 PRG/DUAL FDV	OFF	.00	49	OT
	300703	FCP3 GH2 PURGE VALVE	OFF	.00	49	OT
			-- TOTAL SOURCE POWER IS NOW 17.71 KW --			
046:15:00.0	010301	STAR TRACKER -7 AXIS	OFF	.00	16	OT
			-- TOTAL SOURCE POWER IS NOW 17.70 KW --			
046:20:00.0	401302	H2O PUMP - LOOP 1(B)	ON	256.34	202	WC
			-- TOTAL SOURCE POWER IS NOW 17.96 KW --			
046:25:00.0	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC
			-- TOTAL SOURCE POWER IS NOW 17.41 KW --			
046:26:00.0	401302	H2O PUMP - LOOP 1(B)	OFF	.00	202	WC
			-- TOTAL SOURCE POWER IS NOW 17.14 KW --			
046:30:00.0	600100	CREW OPTC ALIGN SGHT	OFF	.00	217	AC
			-- TOTAL SOURCE POWER IS NOW 17.12 KW --			
047:06:00.0	305101	G02 PRG LNE HTR AUT	OFF	.00	48	OT
	305201	GH2 PRG LNE HTR AUT	OFF	.00	48	OT
			-- TOTAL SOURCE POWER IS NOW 17.03 KW --			

Figure 6.3-1. - Continued

047:15:00.0	033800	WASTE MGT COMPARTMNT	ON	17.13	4	AC
	401600	SOL COL SLINGER	ON	62.28	4	AC
	401701	WTR SEP WASTE SYS 1	ON	261.54	201	AC

-- TOTAL SOURCE POWER IS NOW 17.38 KW --

047:20:00.0	033501	MID DK FLDLT 1	CHANGED TO	1.71	4	AC
	033502	MID DK FLDLT 2	CHANGED TO	1.73	5	AC
	033503	MID DK FLDLT 3	CHANGED TO	1.72	6	AC
	033504	MID DK FLDLT 4	CHANGED TO	1.72	6	AC
	033505	MID DK FLDLT 5	CHANGED TO	1.73	5	AC
	033507	MID DK FLDLT 7	CHANGED TO	1.72	6	AC
	033508	MID DK FLDLT 8	CHANGED TO	1.71	4	AC

-- TOTAL SOURCE POWER IS NOW 17.27 KW --

047:27:00.0	401600	SOL COL SLINGER	OFF	.00	4	AC
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-- TOTAL SOURCE POWER IS NOW 17.21 KW --

047:30:00.0	030202	HSI =2	ON	28.66	17	AC
	030302	AMI =2	ON	7.52	17	AC
	030402	ALPHA MACH FL UNIT 2	ON	33.71	17	HX
	030502	AVVI =2	ON	7.52	17	AC
	030602	ALT VER VEL EL UN =2	ON	26.41	17	HX
	030705	TAPE MTR M1(HYD PRI)	ON	9.66	17	AC
	030706	TAPE MTR M2(HYD QTY)	ON	9.66	17	AC
	030707	TAPE MTR M3(APU)	ON	9.66	17	AC
	030708	TAPE MTR M4(APU OIL)	ON	6.44	17	AC
	032702	CRT DU =2 - RF	ON	90.09	23	HX
	032802	DEU =2	ON	202.00	23	HX
	033203	INSTR LTS - RIGHT	ON	43.62	211	AC
	061803	H202 CRYO ASY1A-H2CY	ON	6.83	7	FM
	061804	H202 CRYO ASY1B-H2CY	ON	6.87	9	FM
	061813	H202 CRYO ASY2A-H2CY	ON	6.86	8	FM
	061814	H202 CRYO ASY2B-H2CY	ON	6.87	9	FM
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT
	311903	H2 TANK 2 HEATER A	ON	98.80	9	OT
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT

-- TOTAL SOURCE POWER IS NOW 18.14 KW --

047:30:39.0	523301	VNT DR L AF 8/9 SYS1	ON	117.65	202	OT
	523302	VNT DR L AF 8/9 SYS2	ON	117.94	201	OT
	523303	VNT DR R AF 8/9 SYS1	ON	117.65	203	OT
	523304	VNT DR R AF 8/9 SYS2	ON	117.65	202	OT

-- TOTAL SOURCE POWER IS NOW 18.64 KW --

047:30:44.0	523201	VNT DR L MID 6 SYS 1	ON	118.11	201	OT
	523202	VNT DR L MID 6 SYS 2	ON	117.65	203	OT
	523203	VNT DR R MID 6 SYS 1	ON	118.11	201	OT
	523204	VNT DR R MID 6 SYS 2	ON	117.65	202	OT
	523301	VNT DR L AF 8/9 SYS1	OFF	.00	202	OT
	523302	VNT DR L AF 8/9 SYS2	OFF	.00	201	OT

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Figure 6.3-1. - Continued

	523303	VNT DR R AF 8/9 SYS1	OFF	.00	203	OT
	523304	VNT DR R AF 8/9 SYS2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 18.64 KW --						
047:30:49.0	523101	VNT DR L MD 4/7 SYS1	ON	117.65	203	OT
	523102	VNT DR L MD 4/7 SYS2	ON	117.65	202	OT
	523103	VNT DR R MD 4/7 SYS1	ON	117.65	203	OT
	523104	VNT DR R MD 4/7 SYS2	ON	117.65	202	OT
	523201	VNT DR L MID 6 SYS 1	OFF	.00	201	OT
	523202	VNT DR L MID 6 SYS 2	OFF	.00	203	OT
	523203	VNT DR R MID 6 SYS 1	OFF	.00	201	OT
	523204	VNT DR R MID 6 SYS 2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 18.63 KW --						
047:30:54.0	523001	VNT DR L MID 5 SYS 1	ON	118.11	201	OT
	523002	VNT DR L MID 5 SYS 2	ON	117.65	202	OT
	523003	VNT DR R MID 5 SYS 1	ON	118.11	201	OT
	523004	VNT DR R MID 5 SYS 2	ON	117.65	203	OT
	523101	VNT DR L MD 4/7 SYS1	OFF	.00	203	OT
	523102	VNT DR L MD 4/7 SYS2	OFF	.00	202	OT
	523103	VNT DR R MD 4/7 SYS1	OFF	.00	203	OT
	523104	VNT DR R MD 4/7 SYS2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 18.64 KW --						
539 047:30:59.0	522901	VNT DR L MID 3 SYS 1	ON	118.11	201	OT
	522902	VNT DR L MID 3 SYS 2	ON	117.65	202	OT
	522903	VNT DR R MID 3 SYS 1	ON	118.11	201	OT
	522904	VNT DR R MID 3 SYS 2	ON	117.65	203	OT
	523001	VNT DR L MID 5 SYS 1	OFF	.00	201	OT
	523002	VNT DR L MID 5 SYS 2	OFF	.00	202	OT
	523003	VNT DR R MID 5 SYS 1	OFF	.00	201	OT
	523004	VNT DR R MID 5 SYS 2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 18.64 KW --						
047:31:04.0	010401	ADTA =1	ON	64.00	16	A1
	010402	ADTA =2	ON	64.00	17	A2
	010403	ADTA =3	ON	64.00	18	A1
	010404	ADTA =4	ON	64.00	18	A2
	010901	ASA1 PWR SUP LOG-OPR	ON	51.50	66	F4
	010902	ASA2 PWR SUP LOG-OPR	ON	51.50	67	F5
	010903	ASA3 PWR SUP LOG-OPR	ON	51.50	68	F6
	010904	ASA4 PWR SUP LOG-OPR	ON	51.50	80	F6
	011011	ASA 1 ACTUATORS-OPER	ON	16.51	66	OT
	011012	ASA 2 ACTUATORS-OPER	ON	16.51	67	OT
	011013	ASA 3 ACTUATORS-OPER	ON	16.51	68	OT
	011014	ASA 4 ACTUATORS-OPER	ON	16.50	80	OT
	011301	RGA =1 OPR	ON	35.82	78	FA
	011302	RGA =2 OPR	ON	36.38	64	FA
	011303	RGA =3 OPR	ON	36.29	49	FA
	011304	RGA =4 OPR	ON	35.83	46	FA
	011401	ACCEL ASSY =1 - OPER	ON	2.40	16	A1
	011402	ACCEL ASSY =2 - OPER	ON	2.40	17	A2
	011403	ACCEL ASSY =3 - OPER	ON	2.40	30	A2

Figure 6.3-1. - Continued

Figure 6.3-1. - Continued

011404	ACCEL ASSY =4 - OPER	ON	2.40	29	A1	
021701	TACAN =1 SEARCH	ON	211.06	213	A1	
021702	TACAN =2 SEARCH	ON	209.15	216	A2	
021703	TACAN =3 SEARCH	ON	210.29	219	A3	
021901	MSBLS DCDR ASSY =1	ON	56.33	16	A1	
021902	MSBLS DCDR ASSY =2	ON	58.59	17	A2	
021903	MSBLS DCDR ASSY =3	ON	54.23	18	A2	
022001	MSBLS RF ASSY =1	ON	15.89	16	A1	
022002	MSBLS RF ASSY =2	ON	16.50	17	A2	
022003	MSBLS RF ASSY =3	ON	15.32	18	A2	
022101	RADAR ALTIMETER =1	ON	23.73	16	W1	
022102	RADAR ALTIMETER =2	ON	23.73	17	W2	
024901	HDSET INTF UNIT-PLT	OFF	.00	42	AC	
024902	HDSET INTF UNIT-CMDR	OFF	.00	41	AC	
030102	ADI =2 FWD RH	ON	17.49	20	AC	
030201	HST =1	ON	27.54	16	AC	
030301	AMI =1	ON	7.22	16	AC	
030401	ALPHA MACH FL UNIT 1	ON	32.39	16	HX	
030501	AVVI =1	ON	7.22	16	AC	
030601	ALT VER VEL EL UN =1	ON	25.30	16	HX	
031300	SPI	ON	17.40	16	AC	
032202	DDU =2 FWD RH	ON	120.00	20	HX	
033101	PANEL LTS - LEFT/CTR	CHANGED TO	258.94	211	AC	
033102	PANEL LTS - LEFT/OVHD	CHANGED TO	233.98	212	AC	
033107	PANEL LTS - RHT/OVHD	CHANGED TO	172.52	214	AC	
033201	INSTR LTS - LEFT/CTR	CHANGED TO	75.57	218	AC	
033202	INSTR LTS - OVERHEAD	CHANGED TO	35.95	215	AC	
033203	INSTR LTS - RIGHT	CHANGED TO	66.00	211	AC	
033501	MID DK FLDLT 1	OFF	.00	4	AC	
033502	MID DK FLDLT 2	OFF	.00	5	AC	
033503	MID DK FLDLT 3	OFF	.00	6	AC	
033504	MID DK FLDLT 4	OFF	.00	6	AC	
033506	MID DK FLDLT 6	OFF	.00	5	AC	
033507	MID DK FLDLT 7	OFF	.00	6	AC	
033508	MID DK FLDLT 8	OFF	.00	4	AC	
034205	RHT OVERHEAD FLDLT A	ON	23.29	18	AC	
040403	PAYLD RECORDER-REPLY	OFF	.00	30	W1	
522701	BRK/SKID CNTL BOX A	ON	18.07	30	A1	
522702	BRK/SKID CNTL BOX B	ON	18.07	29	A2	
522801	VNT DR L FD 1/2 SYS1	ON	117.98	203	OT	
522802	VNT DR L FD 1/2 SYS2	ON	117.65	202	OT	
522803	VNT DR R FD 1/2 SYS1	ON	119.08	201	OT	
522804	VNT DR R FD 1/2 SYS2	ON	117.65	202	OT	
-- TOTAL SOURCE POWER IS NOW 21.43 KW --						
	VNT DR L MID 3 SYS 1	OFF	.00	201	OT	
047:31:05.0	522901	VNT DR L MID 3 SYS 2	OFF	.00	202	OT
	522902	VNT DR R MID 3 SYS 1	OFF	.00	201	OT
	522903	VNT DR R MID 3 SYS 2	OFF	.00	203	OT
	522904					
-- TOTAL SOURCE POWER IS NOW 20.93 KW --						
	VNT DR L FD 1/2 SYS1	OFF	.00	203	OT	
047:31:09.0	522801	VNT DR L FD 1/2 SYS2	OFF	.00	202	OT
	522802	VNT DR R FD 1/2 SYS1	OFF	.00	201	OT
	522803	VNT DR R FD 1/2 SYS2	OFF	.00	202	OT
	522804					

Figure 6.3-1. - Continued

		-- TOTAL SOURCE POWER IS NOW 20.40 KW --					
047:31:34.0	011301	RGA =1 OPR	CHANGED TO	24.96	78	FA	
	011302	RGA =2 OPR	CHANGED TO	25.24	64	FA	
	011303	RGA =3 OPR	CHANGED TO	25.24	49	FA	
	011304	RGA =4 OPR	CHANGED TO	24.96	46	FA	
		-- TOTAL SOURCE POWER IS NOW 20.35 KW --					
047:39:00.0	033800	WASTE MGT COMPARTMNT	OFF	.00	4	AC	
	401701	WTR SEP WASTE SYS 1	OFF	.00	201	AC	
		-- TOTAL SOURCE POWER IS NOW 20.05 KW --					
047:40:00.0	402311	FOOD WARMER-OFT PHA	ON	265.56	217	AC	
	402312	FOOD WARMER-OFT PHC	ON	267.97	219	AC	
		-- TOTAL SOURCE POWER IS NOW 20.62 KW --					
047:41:04.0	030103	ADI =3 AFT	OFF	.00	21	AC	
	032203	DDU =3 AFT	OFF	.00	21	HX	
		-- TOTAL SOURCE POWER IS NOW 20.48 KW --					
047:46:04.0	011601	THC-LH	ON	3.20	19	AC	
	011701	RHC-LH	ON	4.85	19	AC	
	011702	RHC-RH	ON	4.86	20	AC	
	011801	RPTA-LH	ON	1.24	19	AC	
	011802	RPTA-RH	ON	1.24	20	AC	
	011901	SBTC-LH	ON	1.65	19	AC	
	011902	SBTC-RH	ON	1.65	20	AC	
		-- TOTAL SOURCE POWER IS NOW 20.50 KW --					
047:59:00.0	500601	MN PMP =1 DEPRES VLV	ON	23.56	66	OT	
	500602	MN PMP =2 DEPRES VLV	ON	23.56	67	OT	
	500603	MN PMP =3 DEPRES VLV	ON	23.56	68	OT	
		-- TOTAL SOURCE POWER IS NOW 20.57 KW --					
047:59:59.0	503501	WSB #1 GN2 CTL VL A	ON	41.94	65	OT	
	503503	WSB #2 GN2 CTL VL A	ON	41.17	63	OT	
	503505	WSB #3 GN2 CTL VL A	ON	41.95	64	OT	
		-- TOTAL SOURCE POWER IS NOW 20.71 KW --					
047:59:59.3	503501	WSB #1 GN2 CTL VL A	OFF	.00	65	OT	
	503503	WSB #2 GN2 CTL VL A	OFF	.00	63	OT	
	503505	WSB #3 GN2 CTL VL A	OFF	.00	64	OT	
		-- TOTAL SOURCE POWER IS NOW 20.57 KW --					
049:00:00.0	320201	APU 1 FU ISO VLV 1	ON	32.61	63	OT	
	320202	APU 1 FU ISO VLV 2	ON	32.60	64	OT	
	320203	APU 2 FU ISO VLV 1	ON	32.60	64	OT	
	320204	APU 2 FU ISO VLV 2	ON	32.59	65	OT	

Figure 6.3-1. - Continued

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320205	APU 3 FU ISO VLV 1	ON	32.59	65	OT
320206	APU 3 FU ISO VLV 2	ON	32.61	63	OT
320301	APU1 CNTLR-OPERATE	CHANGED TO	20.38	66	F4
320302	APU2 CNTLR-OPERATE	CHANGED TO	20.38	67	F5
320303	APU3 CNTLR-OPERATE	CHANGED TO	20.38	68	F6
320401	APU 1 SHUTOFF VLV	ON	36.20	66	OT
320402	APU 2 SHUTOFF VLV	ON	36.19	67	OT
320403	APU 3 SHUTOFF VLV	ON	36.20	68	OT
320501	APU 1 MODULATING VLV	ON	18.10	66	OT
320502	APU 2 MODULATING VLV	ON	18.10	67	OT
320503	APU 3 MODULATING VLV	ON	18.10	68	OT
501801	RUD/SPBK SW VL ACT 1	ON	1.36	213	OT
501802	RUD/SPDBK SW VL PS2	ON	1.37	216	OT
501901	ME 1 PITCH SW V ACTV	ON	1.37	216	OT
501902	ME 1 YAW SW ACTV	ON	1.37	216	OT
501903	ME 2 PITCH SW V ACTV	ON	1.37	216	OT
501904	ME 2 YAW SW V ACTV	ON	1.37	216	OT
501905	ME 3 PITCH SW V ACTV	ON	1.37	216	OT
501906	ME 3 YAW SW V ACTV	ON	1.37	216	OT
502001	ELV ACT SW V ACT-LO	ON	1.36	213	OT
502002	ELV ACT SW V PS2-LO	ON	1.37	216	OT
502003	ELV ACT SW V ACT-LI	ON	1.36	213	OT
502004	ELV ACT SW V PS2-LI	ON	1.37	216	OT
502005	ELV ACT SW V ACT-RI	ON	1.36	213	OT
502006	ELV ACT SW V PS2-RI	ON	1.37	216	OT
502007	ELV ACT SW V ACT-RO	ON	1.36	213	OT
502008	ELV ACT SW V PS2-RO	ON	1.37	216	OT
-- TOTAL SOURCE POWER IS NOW 21.02 KW --					
048:00:05.0	500601	MN PHP #1 DEPRES VLV	OFF	.00	66 OT
	500602	MN PHP #2 DEPRES VLV	OFF	.00	67 OT
	500603	MN PHP #3 DEPRES VLV	OFF	.00	68 OT
-- TOTAL SOURCE POWER IS NOW 20.94 KW --					
048:15:00.0	032702	CRT DU #2 - RF	OFF	.00	23 HX
	032802	DEU #2	OFF	.00	23 HX
	033103	PANEL LIGHTS - RIGHT	OFF	.00	215 AC
320201	APU 1 FU ISO VLV 1	OFF	.00	63 OT	
320202	APU 1 FU ISO VLV 2	OFF	.00	64 OT	
320203	APU 2 FU ISO VLV 1	OFF	.00	64 OT	
320204	APU 2 FU ISO VLV 2	OFF	.00	65 OT	
320205	APU 3 FU ISO VLV 1	OFF	.00	65 OT	
320206	APU 3 FU ISO VLV 2	OFF	.00	63 OT	
320301	APU1 CNTLR-OPERATE	CHANGED TO	6.90	66 F4	
320302	APU2 CNTLR-OPERATE	CHANGED TO	6.90	67 F5	
320303	APU3 CNTLR-OPERATE	CHANGED TO	6.90	68 F6	
320401	APU 1 SHUTOFF VLV	OFF	.00	66 OT	
320402	APU 2 SHUTOFF VLV	OFF	.00	67 OT	
320403	APU 3 SHUTOFF VLV	OFF	.00	68 OT	
320501	APU 1 MODULATING VLV	OFF	.00	66 OT	
320502	APU 2 MODULATING VLV	OFF	.00	67 OT	
320503	APU 3 MODULATING VLV	OFF	.00	68 OT	
501801	RUD/SPBK SW VL ACT 1	OFF	.00	213 OT	
501802	RUD/SPDBK SW VL PS2	OFF	.00	216 OT	
501901	ME 1 PITCH SW V ACTV	OFF	.00	216 OT	

Figure 6.3-1. - Continued

	501902	ME 1 YAW SW ACTV	OFF	.00	216	OT
	501903	ME 2 PITCH SW V ACTV	OFF	.00	216	OT
	501904	ME 2 YAW SW V ACTV	OFF	.00	216	OT
	501905	ME 3 PITCH SW V ACTV	OFF	.00	216	OT
	501906	ME 3 YAW SW V ACTV	OFF	.00	216	OT
	502001	ELV ACT SW V ACT-LO	OFF	.00	213	OT
	502002	ELV ACT SW V PS2-LO	OFF	.00	216	OT
	502003	ELV ACT SW V ACT-LI	OFF	.00	213	OT
	502004	ELV ACT SW V PS2-LI	OFF	.00	216	OT
	502005	ELV ACT SW V ACT-RI	OFF	.00	213	OT
	502006	ELV ACT SW V PS2-RI	OFF	.00	216	OT
	502007	ELV ACT SW V ACT-RO	OFF	.00	213	OT
	502008	ELV ACT SW V PS2-RO	OFF	.00	216	OT
	505401	WSB VENT NOZZ HTR 1A	OFF	.00	65	OT
	505403	WSB VENT NOZZ HTR 2A	OFF	.00	63	OT
	505405	WSB VENT NOZZ HTR 3A	OFF	.00	64	OT
-- TOTAL SOURCE POWER IS NOW 19.86 KW --						
049:18:00.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
	061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
	061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
	061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
	311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
	311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
	311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
	311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
-- TOTAL SOURCE POWER IS NOW 19.43 KW --						
049:31:04.0	032702	CRT DU =2 - RF	ON	88.42	23	HX
	032802	DEU =2	ON	202.00	23	HX
-- TOTAL SOURCE POWER IS NOW 19.74 KW --						
049:01:04.0	070103	GPC CPU#3-RUN	CHANGED TO	313.00	31	A3
	070105	GPC CPU#5-RUN	CHANGED TO	313.00	31	A2
	070203	GPC IOP#3-RUN	CHANGED TO	340.00	31	A3
	070205	GPC IOP#5-RUN	CHANGED TO	340.00	31	A2
-- TOTAL SOURCE POWER IS NOW 19.81 KW --						
049:10:00.0	033501	MID DK FLDLT 1	ON	16.75	4	AC
	033502	MID DK FLDLT 2	ON	16.85	5	AC
	033503	MID DK FLDLT 3	ON	16.85	6	AC
	033504	MID DK FLDLT 4	ON	16.85	6	AC
	033506	MID DK FLDLT 6	ON	16.85	5	AC
	033507	MID DK FLDLT 7	ON	16.85	6	AC
	033508	MID DK FLDLT 8	ON	16.75	4	AC
-- TOTAL SOURCE POWER IS NOW 19.93 KW --						
049:45:00.0	402311	FOOD WARMER-OFT PHA	OFF	.00	217	AC
	402312	FOOD WARMER-OFT PHC	OFF	.00	219	AC
-- TOTAL SOURCE POWER IS NOW 19.36 KW --						

Figure 6.3-1. - Continued

050:16:04.0	400712	02 CONTROL VLV-SYS 2	ON	4.94	17	AC
-- TOTAL SOURCE POWER IS NOW				19.37 KW --		
050:31:04.0	011001	ASA =1 IVD/PF-OPER	ON	.40	68	F4
	011002	ASA =2 IVD/PF-OPER	ON	.40	66	F5
	011003	ASA =3 IVD/PF-OPER	ON	.40	67	F6
	011004	ASA =4 IVD-OPER	ON	.40	76	F6
	402630	POT H2O XOVER VL-OP	ON	50.22	6	AC
	402700	POT H2O GLY SP VL-OP	ON	50.22	6	AC
-- TOTAL SOURCE POWER IS NOW				19.47 KW --		
050:31:04.2	402630	POT H2O XOVER VL-OP	OFF	.00	6	AC
	402700	POT H2O GLY SP VL-OP	OFF	.00	6	AC
-- TOTAL SOURCE POWER IS NOW				19.37 KW --		
050:40:00.0	033501	MID DK FLDLT 1	OFF	.00	4	AC
	033502	MID DK FLDLT 2	OFF	.00	5	AC
	033503	MID DK FLDLT 3	OFF	.00	6	AC
	033504	MID DK FLDLT 4	OFF	.00	5	AC
	033506	MID DK FLDLT 6	OFF	.00	6	AC
	033507	MID DK FLDLT 7	OFF	.00	4	AC
	033508	MID DK FLDLT 8	OFF	.00	4	AC
-- TOTAL SOURCE POWER IS NOW				19.25 KW --		
050:44:00.0	032704	CRT DU =4 - MSS	ON	88.26	24	HX
	032804	DEU =4	ON	202.00	24	HX
	033104	PANEL LIGHTS - MS	ON	21.90	218	AC
	033105	PANEL LIGHTS - OS/PS	ON	210.71	219	AC
	033204	INSTR LTS - OS	ON	17.65	213	AC
	033302	NUMERIC LIGHTS-OS	ON	26.14	216	AC
	034301	PAYLOAD STA FLD LT	ON	8.39	10	AC
	034302	MISSION STA FLD LT	ON	8.78	15	AC
-- TOTAL SOURCE POWER IS NOW				19.88 KW --		
051:00:00.0	061805	H2O2 CRYO ASY1A-02CY	ON	25.31	7	FM
	061806	H2O2 CRYO ASY1B-02CY	ON	25.40	9	FM
	061815	H2O2 CRYO ASY2A-02CY	ON	25.45	8	FM
	061816	H2O2 CRYO ASY2B-02CY	ON	25.40	9	FM
	311701	02 TANK 1 HEATER A1	ON	210.90	7	OT
	311702	02 TANK 1 HEATER A2	ON	210.50	7	OT
	311703	02 TANK 2 HEATER A1	ON	222.50	9	OT
	311704	02 TANK 2 HEATER A2	ON	220.70	9	OT
	311801	02 TANK 1 HEATER B1	ON	211.70	9	OT
	311802	02 TANK 1 HEATER B2	ON	215.40	9	OT
	311803	02 TANK 2 HEATER B1	ON	219.50	8	OT
	311804	02 TANK 2 HEATER B2	ON	222.70	8	OT
-- TOTAL SOURCE POWER IS NOW				21.77 KW --		
051:01:04.0	402502	POT TK A OUT VLV-OP	ON	49.14	6	AC
-- TOTAL SOURCE POWER IS NOW				21.83 KW --		

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Figure 6.3-1. - Continued

051:01:04.2	402502	POT TK A OUT VLV-OP	OFF	.00	6	AC
-- TOTAL SOURCE POWER IS NOW 21.77 KW --						
051:04:00.0	034801	PLB FLDLT ELEC ASY 1	ON	190.19	44	FM
	034802	PLB FLDLT ELEC ASY 2	ON	185.39	87	FM
	034901	PLB FLD FWD PORT EA1	ON	146.31	47	OT
	034902	PLB FLD FWD STBD EA2	ON	146.47	48	OT
	034903	PLB FLD MID PORT EA1	ON	146.47	48	OT
	034904	PLB FLD MID STBD EA2	ON	147.06	49	OT
	034905	PLB FLD AFT PORT EA2	ON	147.06	49	OT
	034906	PLB FLD AFT STBD EA1	ON	146.31	47	OT
-- TOTAL SOURCE POWER IS NOW 23.09 KW --						
051:11:30.0	403301	RAD BYP VLV MTR1-LP1	ON	18.30	215	OT
	403303	RAD BYP VLV MTR1-LP2	ON	18.30	218	OT
-- TOTAL SOURCE POWER IS NOW 23.13 KW --						
051:11:33.0	403301	RAD BYP VLV MTR1-LP1	OFF	.00	215	OT
	403303	RAD BYP VLV MTR1-LP2	OFF	.00	218	OT
-- TOTAL SOURCE POWER IS NOW 23.09 KW --						
051:14:00.0	020101	B+W TV MONITOR #1	ON	34.47	10	HX
	020102	B+W TV MONITOR #2	ON	34.62	11	HX
	020200	REMOTE CONTROL UNIT	ON	39.40	10	HX
	020210	VIDEO SWITCHING UNIT	ON	19.70	10	HX
	020401	TV CAM B+W FWD PLB	ON	12.86	11	OT
	020402	TV CAM COL AFT PLB	ON	12.80	10	OT
	020405	TV CAM B+W KEEL RAY	ON	13.35	15	OT
	020411	B+W CAM LN FWD-SBY	ON	2.40	11	OT
	020412	TV CAM AFT CLR LN-SB	ON	5.32	10	OT
	020415	B+W CAM LNS-KEEL-SBY	ON	2.50	15	OT
	020501	PAN TILT ASY FWD SBY	ON	1.29	11	OT
	020502	PAN TILT ASY AFT SBY	ON	1.28	10	OT
	020503	PAN TLT ASY KEEL-SBY	ON	1.34	15	OT
	020600	VIDEO TP RECORD-OPR	ON	29.67	11	AC
	021101	S-BAND FM XMITR #1	CHANGED TO	34.66	33	W3
	021200	S-BND FM SIG PRO-ORB	CHANGED TO	2.47	36	A3
	021401	S-BND PWR AMP 1-SBY	ON	20.56	23	W3
	021402	S-BND PWR AMP 2-OPR	ON	33.29	24	W3
-- TOTAL SOURCE POWER IS NOW 23.77 KW --						
051:14:25.0	403801	FES HI LO PLSR-V-PRI	ON	28.79	89	OT
	403811	FES HI LO ISO VL-PRI	ON	28.79	89	OT
	403901	FES TOP'G PLSR V-PRI	CHANGED TO	28.79	89	OT
	403921	TPNG V HINDG COIL-PR	CHANGED TO	3.68	89	OT
-- TOTAL SOURCE POWER IS NOW 23.86 KW --						
051:14:30.0	402901	FREQN PMP LF 1-A ASC	CHANGED TO	490.21	201	FP
	402903	FREQN PMP LF 2-A ASC	CHANGED TO	492.42	203	FP
	403301	RAD FLOW CNTLR A-LP1	OFF	.00	17	OT

Figure 6.3-1. - Continued

	4J3002	RD FL CTR A-LP1 FALT	OFF	.00	17	OT
	4J3004	RD FL CTR B-LP1 FALT	OFF	.00	16	OT
	4J3101	RAD FLOW CNTLR A-LP2	OFF	.00	17	OT
	4J3102	RD FL CTR A-LP2 FALT	OFF	.00	17	OT
	4J3104	RD FL CTR B-LP2 FALT	OFF	.00	16	OT
	4J3201	RAD FL CNTL VLV-LP 1	OFF	.00	17	OT
	4J3202	RAD FL CNTL VLV-LP 2	OFF	.00	17	OT
	523901	RAD LH DPLY DRV MTR1	ON	81.26	201	OT
	523902	RAD LH DPLY DRV MTR2	ON	81.63	203	OT
	523903	RAD RH DPLY DRV MTR1	ON	81.26	201	OT
	523904	RAD RH DPLY DRV MTR2	ON	81.63	203	OT
-- TOTAL SOURCE POWER IS NOW 24.22 KW --						
051:15:13.0	523901	RAD LH DPLY DRV MTR1	OFF	.00	201	OT
	523902	RAD LH DPLY DRV MTR2	OFF	.00	203	OT
	523903	RAD RH DPLY DRV MTR1	OFF	.00	201	OT
	523904	RAD RH DPLY DRV MTR2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 23.87 KW --						
051:15:18.0	523801	RAD LH RT LCH1-6 MT1	ON	81.49	201	OT
	523802	RAD LH RT LCH1-6 MT2	ON	81.05	202	OT
	523803	RAD LH RT LCH7-12 M1	ON	81.49	201	OT
	523804	RAD LH RT LCH7-12 M2	ON	81.63	203	OT
	523805	RAD RH RT LCH1-6 MT1	ON	81.49	201	OT
	523806	RAD RH RT LCH1-6 MT2	ON	81.05	202	OT
	523807	RAD RH RT LCH7-12 M1	ON	81.49	201	OT
	523808	RAD RH RT LCH7-12 M2	ON	81.63	203	OT
-- TOTAL SOURCE POWER IS NOW 24.57 KW --						
051:15:44.0	523801	RAD LH RT LCH1-6 MT1	OFF	.00	201	OT
	523802	RAD LH RT LCH1-6 MT2	OFF	.00	202	OT
	523803	RAD LH RT LCH7-12 M1	OFF	.00	201	OT
	523804	RAD LH RT LCH7-12 M2	OFF	.00	203	OT
	523805	RAD RH RT LCH1-6 MT1	OFF	.00	201	OT
	523806	RAD RH RT LCH1-6 MT2	OFF	.00	202	OT
	523807	RAD RH RT LCH7-12 M1	OFF	.00	201	OT
	523808	RAD RH RT LCH7-12 M2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 23.87 KW --						
051:15:44.0	521601	PLB LH DOOR DRV MTR1	ON	522.86	202	OT
	521602	PLB LH DOOR DRV MTR2	ON	530.83	203	OT
-- TOTAL SOURCE POWER IS NOW 25.00 KW --						
051:17:47.0	521601	PLB LH DOOR DRV MTR1	OFF	.00	202	OT
	521602	PLB LH DOOR DRV MTR2	OFF	.00	203	OT
-- TOTAL SOURCE POWER IS NOW 23.87 KW --						
051:17:57.0	523601	PBD LH FD BKHD LCH 1	ON	223.22	201	OT
	523602	PBD LH FD BKHD LCH 2	ON	220.92	202	OT
	523603	PBD LH AF BKHD LCH 1	ON	223.22	201	OT
	523604	PBD LH AF BKHD LCH 2	ON	222.94	203	OT

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Figure 6.3-1. - Continued

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-- TOTAL SOURCE POWER IS NOW 24.84 KW --								
051:18:27.0	523601	PBD LH FD BKHD LCH 1	OFF	.00	201	OT		
	523602	PBD LH FD BKHD LCH 2	OFF	.00	202	OT		
	523605	PBD LH AF BKHD LCH 1	OFF	.00	201	OT		
	523605	PBD LH AF BKHD LCH 2	OFF	.00	203	OT		
-- TOTAL SOURCE POWER IS NOW 23.86 KW --								
051:18:37.0	521701	PLB RH DOOR DRV MTR1	ON	528.00	201	OT		
	521702	PLB RH DOOR DRV MTR2	ON	522.88	202	OT		
-- TOTAL SOURCE POWER IS NOW 25.00 KW --								
051:19:40.0	521701	PLB RH DOOR DRV MTR1	OFF	.00	201	OT		
	521702	PLB RH DOOR DRV MTR2	OFF	.00	202	OT		
-- TOTAL SOURCE POWER IS NOW 23.87 KW --								
051:19:50.0	523603	PBD RH FD BKHD LCH 1	ON	221.92	201	OT		
	523604	PBD RH FD BKHD LCH 2	ON	220.92	202	OT		
	523607	PBD RH AF BKHD LCH 1	ON	222.94	203	OT		
	523608	PBD RH AF BKHD LCH 2	ON	220.92	202	OT		
-- TOTAL SOURCE POWER IS NOW 24.82 KW --								
051:20:20.0	523603	PBD RH FD BKHD LCH 1	OFF	.00	201	OT		
	523604	PBD RH FD BKHD LCH 2	OFF	.00	202	OT		
	523607	PBD RH AF BKHD LCH 1	OFF	.00	203	OT		
	523608	PBD RH AF BKHD LCH 2	OFF	.00	202	OT		
-- TOTAL SOURCE POWER IS NOW 23.87 KW --								
051:20:30.0	523701	PBD CTRLN LCH1-4 MT1	ON	196.82	201	OT		
	523702	PBD CTRLN LCH1-4 MT2	ON	198.69	203	OT		
	523707	PBD CTRLN LH13-16 M1	ON	198.69	203	OT		
	523708	PBD CTRLN LH13-16 M2	ON	196.08	202	OT		
-- TOTAL SOURCE POWER IS NOW 24.73 KW --								
051:20:50.0	523701	PBD CTRLN LCH1-4 MT1	OFF	.00	201	OT		
	523702	PBD CTRLN LCH1-4 MT2	OFF	.00	203	OT		
	523707	PBD CTRLN LH13-16 M1	OFF	.00	203	OT		
	523708	PBD CTRLN LH13-16 M2	OFF	.00	202	OT		
-- TOTAL SOURCE POWER IS NOW 23.86 KW --								
051:21:00.0	523703	PBD CTRLN LCH5-8 MT1	ON	197.68	201	OT		
	523704	PBD CTRLN LCH5-8 MT2	ON	198.69	203	OT		
	523705	PBD CTRLN LCH9-12 M1	ON	197.68	201	OT		
	523706	PBD CTRLN LCH9-12 M2	ON	198.69	203	OT		
-- TOTAL SOURCE POWER IS NOW 24.74 KW --								
051:21:20.0	523703	PBD CTRLN LCH5-8 MT1	OFF	.00	201	OT		
	523704	PBD CTRLN LCH5-8 MT2	OFF	.00	203	OT		

Figure 6.3-1. - Continued

	523705	PBD CTRLN LCH9-12 M1	OFF	.00	201	OT
	523706	PBD CTRLN LCH9-12 M2	OFF	.00	203	OT
		TOTAL SOURCE POWER IS NOW 23.86 KW				
051:28:04.0	505401	WSB VENT NOZZ HTR 1A	ON	73.60	65	OT
	505403	WSB VENT NOZZ HTR 2A	ON	61.50	63	OT
	505405	WSB VENT NOZZ HTR 3A	ON	59.18	64	OT
		-- TOTAL SOURCE POWER IS NOW 24.07 KW --				
051:31:04.0	609301	ESCAPE SUIT VT ASY L	ON	94.59	11	AC
	609302	ESCAPE SUIT VT ASY R	ON	94.18	10	AC
		-- TOTAL SOURCE POWER IS NOW 24.26 KW --				
051:34:00.0	034801	PLB FLDLT ELEC ASY 1	CHANGED TO	141.34	44	FM
		-- TOTAL SOURCE POWER IS NOW 24.21 KW --				
051:40:00.0	010301	STAR TRACKER -Z AXIS	ON	16.61	16	OT
	670100	CREW OPTIC ALIGN SGHT	ON	16.34	217	AC
		TOTAL SOURCE POWER IS NOW 24.25 KW				
051:44:00.0	020101	B+W TV MONITOR =1	OFF	.00	10	HX
	020102	B+W TV MONITOR =2	OFF	.00	11	HX
	020200	REMOTE CONTROL UNIT	OFF	.00	10	HX
	020210	VIDEO SWITCHING UNIT	OFF	.00	10	OT
	020401	TV CAM B+W FWD PLB	OFF	.00	10	OT
	020402	TV CAM COL AFT PLB	OFF	.00	15	OT
	020405	TV CAM B+W KEEL BAY	OFF	.00	11	OT
	020411	B+W CAM LN FWD-SBY	OFF	.00	10	OT
	020412	TV CAM AFT CLR LN-SB	OFF	.00	15	OT
	020415	B+W CAM LNS KEEL-SBY	OFF	.00	11	OT
	020501	PAN TILT ASY FWD-SBY	OFF	.00	10	OT
	020502	PAN TILT ASY AFT-SBY	OFF	.00	15	OT
	020503	PAN TLT ASY KEEL-SBY	OFF	.00	11	AC
	020600	VIDEO TP RECORD-OPR	OFF	.00	33	W3
	021101	S-BAND FM XMITR =1	CHANGED TO	10.54	36	A3
	021200	S-BND FM SIG PRO-GRB	CHANGED TO	.75	218	AC
	033104	PANEL LIGHTS - MS	OFF	.00	219	AC
	033105	PANEL LIGHTS - OS/PS	OFF	.00	213	AC
	033204	INSTR LTS - OS	OFF	.00	216	AC
	033302	NUMERIC LIGHTS-OS	OFF	.00	10	AC
	034301	PAYLOAD STA FLD LT	OFF	.00	15	AC
	034302	MISSION STA FLD LT	OFF	.00	44	FM
	034801	PLB FLDLT ELEC ASY 1	OFF	.00	87	FM
	034802	PLB FLDLT ELEC ASY 2	OFF	.00	47	OT
	034901	PLB FLD FWD PORT EA1	OFF	.00	48	OT
	034902	PLB FLD FWD STBD EA2	OFF	.00	48	OT
	034903	PLB FLD MID PORT EA1	OFF	.00	49	OT
	034904	PLB FLD MID STBD EA2	OFF	.00	49	OT
	034905	PLB FLD AFT PORT EA1	OFF	.00	47	OT
	034906	PLB FLD AFT STBD EA1	OFF	.00	47	OT
		-- TOTAL SOURCE POWER IS NOW 22.42 KW --				

Figure 6.3-1. - Continued

051:46:48.0

061805
061806
061815
061816
311701
311702
311703
311704
311801
311802
311803
311804

H202 CRYO ASY1A-02CY OFF
H202 CRYO ASY1B-02CY OFF
H202 CRYO ASY2A-02CY OFF
H202 CRYO ASY2B-02CY OFF
02 TANK 1 HEATER A1 OFF
02 TANK 1 HEATER A2 OFF
02 TANK 2 HEATER A1 OFF
02 TANK 2 HEATER A2 OFF
02 TANK 1 HEATER B1 OFF
02 TANK 1 HEATER B2 OFF
02 TANK 2 HEATER B1 OFF
02 TANK 2 HEATER B2 OFF

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7
9
8
9
7
9
9
9
9
6
8

FM
FM
FM
FM
OT
OT
OT
OT
OT
OT
OT

-- TOTAL SOURCE POWER IS NOW 20.53 KW --

051:55:00.0

305101
305201

G02 PRG LNE HTR AUT ON
GH2 PRG LNE HTR AUT ON

40.70
51.60

48
48

OT
OT

-- TOTAL SOURCE POWER IS NOW 20.62 KW --

052:04:14.0

200802
200810
200800
201801
201802
201901
201902
202002
202003
202005
202103
202104

LH2 IB F+D VLV OP SOL ON
LH2 HI PT 3LD VALVE ON
LH2 TOP VLV OP SOL ON
LO2 MANF REPRS VLV 1 ON
LO2 MANF REPRS VLV 2 ON
LH2 MANF REPRS VLV 1 ON
LH2 MANF REPRS VLV 2 ON
ENG 1 HE INT OUT VLV ON
ENG 2 HE INT IN VLV ON
ENG 3 HE INT OUT VLV ON
ENG 2 HE SPY ISO VLA ON
ENG 2 HE SPY ISO VLB ON

37.66
37.66
37.66
37.66
37.66
37.67
37.67
37.66
38.24
37.66
37.67
37.99

84
84
84
86
86
85
85
84
45
86
85
68

OT
OT
OT
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OT
OT

-- TOTAL SOURCE POWER IS NOW 21.10 KW --

052:10:00.0

010301

STAR TRACKER -7 AXIS OFF

.00

16

OT

-- TOTAL SOURCE POWER IS NOW 21.09 KW --

052:11:00.0

300601
300701

FCP1 02 PRG/DUAL FDV ON
FCP1 GH2 PURGE VALVE ON

10.69
10.69

47
47

OT
OT

-- TOTAL SOURCE POWER IS NOW 21.11 KW --

052:13:00.0

300601
300602
300701
300702

FCP1 02 PRG/DUAL FDV OFF
FCP2 02 PRG/DUAL FDV ON
FCP1 GH2 PURGE VALVE OFF
FCP2 GH2 PURGE VALVE ON

.00
10.81
.00
10.81

47
48
47
48

OT
OT
OT
OT

-- TOTAL SOURCE POWER IS NOW 21.11 KW --

052:15:00.0

300602
300603
300702
300703

FCP2 02 PRG/DUAL FDV OFF
FCP3 02 PRG/DUAL FDV ON
FCP2 GH2 PURGE VALVE OFF
FCP3 GH2 PURGE VALVE ON

.00
10.88
.00
10.88

48
49
48
49

OT
OT
OT
OT

Figure 6.3-1. - Continued

		-- TOTAL SOURCE POWER IS NOW 21.11 KW --					
052:17:00.0	300603	FCP3 02 PRG/DUAL FDV	OFF	.00	49	OT	
	333793	FCP3 GHZ PUPGE VALVE	OFF	.00	49	OT	
		-- TOTAL SOURCE POWER IS NOW 21.09 KW --					
052:21:04.0	521001	STTRKR DR MTR 1 (-Y)	ON	43.17	201	OT	
	521002	STTRKR DR MTR 2 (-Y)	ON	43.14	202	OT	
	521003	STTRKR DR MTR 1 (-Z)	ON	43.18	203	OT	
	521004	STTRKR DR MTR 2 (-Z)	ON	43.14	202	OT	
		-- TOTAL SOURCE POWER IS NOW 21.27 KW --					
052:22:04.0	521001	STTRKR DP MTR 1 (-Y)	OFF	.00	201	OT	
	521002	STTRKR DR MTR 2 (-Y)	OFF	.00	202	OT	
	521003	STTRKR DR MTR 1 (-Z)	OFF	.00	203	OT	
	521004	STTRKR DR MTR 2 (-Z)	OFF	.00	202	OT	
		-- TOTAL SOURCE POWER IS NOW 21.09 KW --					
052:25:00.0	600100	CREW OPTC ALIGN SGHT	OFF	.00	217	AC	
		-- TOTAL SOURCE POWER IS NOW 21.07 KW --					
052:30:00.0	051803	H202 CRYO ASY1A-H2CY	ON	6.61	7	FM	
	051804	H202 CRYO ASY1B-H2CY	ON	6.66	9	FM	
	051813	H202 CRYO ASY2A-H2CY	ON	6.65	8	FM	
	051814	H202 CRYO ASY2B-H2CY	ON	6.66	9	FM	
	311901	H2 TANK 1 HEATER A	ON	96.50	7	OT	
	311902	H2 TANK 1 HEATER B	ON	97.20	9	OT	
	311903	H2 TANK 2 HEATER A	ON	98.30	9	OT	
	311904	H2 TANK 2 HEATER B	ON	99.30	8	OT	
		-- TOTAL SOURCE POWER IS NOW 21.50 KW --					
052:31:04.0	010801	ATVC =1 PWR SUP-OPER	ON	38.90	66	F4	
	010802	ATVC =2 PWR SUP-OPER	ON	38.90	67	F5	
	010803	ATVC =3 PWR SUP-OPER	ON	38.90	68	F6	
	010804	ATVC =4 PWR SUP-OPER	ON	38.90	80	F6	
	010811	ATVC =1-ISO VLV DRVR	ON	.79	65	F4	
	010812	ATVC =2-ISO VLV DRVR	ON	.79	63	F5	
	010813	ATVC =3-ISO VLV DRVR	ON	.79	64	F6	
	010814	ATVC =4-ISO VLV DRVR	ON	.79	75	F6	
	010821	ATVC =1 ACTS-OPER	ON	3.30	66	OT	
	010822	ATVC =2 ACTS-OPER	ON	3.30	67	OT	
	010823	ATVC =3 ACTS-OPER	ON	3.30	68	OT	
	010824	ATVC =4 ACTS-OPER	ON	3.30	80	OT	
	021501	S-BD PREAMP 1-SBY	ON	13.02	33	W3	
	021502	S-BD PREAMP 2-OPR	ON	19.09	34	W3	
	024801	AUDIO INTF UNIT-PLT	ON	.69	42	AC	
	024802	AUDIO INTF UNIT-CMDR	ON	.69	41	AC	
	032704	CRT DU =4 - MSS	OFF	.00	24	HX	
	032804	DEU =4	OFF	.00	24	HX	
	040403	PAYLD RECORDER-REPLY	ON	52.89	30	W1	
		-- TOTAL SOURCE POWER IS NOW 21.47 KW --					

Figure 6.3-1. - Continued

052:51:04.0	600201	SEAT ADJ ACT MTR-LFT	ON	127.73	11	AC
	600202	SEAT ADJ ACT MT-RGHT	ON	127.04	10	AC
-- TOTAL SOURCE POWER IS NOW 21.73 KW --						
052:51:19.0	600201	SEAT ADJ ACT MTR-LFT	OFF	.00	11	AC
	600202	SEAT ADJ ACT MT-RGHT	OFF	.06	10	AC
-- TOTAL SOURCE POWER IS NOW 21.47 KW --						
052:58:04.0	033103	PANEL LIGHTS - RIGHT	ON	11.48	215	AC
-- TOTAL SOURCE POWER IS NOW 21.59 KW --						
053:01:04.0	022201	UHF XCVR-XMT/REC	ON	57.42	10	AC
	050703	WB FDM 2A (FMF2)-FWD	ON	25.81	12	DW
	050704	WB FDM 2B (FMF2)-FWD	ON	25.81	12	DW
	050705	WB FDM 3A (FMF3)-FWD	ON	25.81	12	DW
	050706	WB FDM 3B (FMF3)-FWD	ON	25.81	12	DW
	050801	WDBND FDM UN1-MID L1	ON	24.43	47	D1
	050802	WDBND FDM UN1-MID L1	ON	24.53	48	D1
	050803	WDBND FDM UN2-MID L1	ON	24.43	47	D1
	050804	WDBND FDM UN2-MID L1	ON	24.53	48	D1
	050805	WDBND FDM UN1-MID R2	ON	24.43	47	D2
	050806	WDBND FDM UN1-MID R2	ON	24.53	48	D2
	050807	WDBND FDM UN2-MID R2	ON	24.43	47	D2
	050808	WDBND FDM UN2-MID R2	ON	24.53	48	D2
	050812	WDBND FDM UN1-MID L3	ON	24.43	47	D3
	051020	WBSC FWD (A132)-WBM	ON	5.78	12	DW
	051032	WBSC FWD (A133)-WBM	ON	7.95	12	DW
	051041	WBSC FWD (A134)-WBM	ON	9.81	12	DW
	051111	WBSC LM1 (A135)-WBM	ON	2.75	48	D1
	051112	WBSC LM1 (A135)-WBM	ON	3.42	47	D1
	051121	WBSC LM1 (A136)-WBM	ON	3.43	48	D1
	051122	WBSC LM1 (A136)-WBM	ON	3.81	47	D1
	051131	WBSC LM1 (A137)-WBM	ON	5.20	48	D1
	051132	WBSC LM1 (A137)-WBM	ON	4.49	47	D1
	051141	WBSC LM1 (A138)-WBM	ON	3.83	48	D1
	051142	WBSC LM1 (A138)-WBM	ON	5.16	47	D1
	051211	WBSC RM2 (A139)-WBM	ON	2.75	48	D2
	051212	WBSC RM2 (A139)-WBM	ON	3.13	47	D2
	051221	WBSC RM2 (A140)-WBM	ON	3.14	48	D2
	051222	WBSC RM2 (A141)-WBM	ON	2.74	47	D2
	051231	WBSC RM2 (A141)-WBM	ON	4.81	46	D2
	051232	WBSC RM2 (A141)-WBM	ON	4.49	47	D2
	051241	WBSC RM2 (A142)-WBM	ON	3.14	48	D2
	051242	WBSC RM2 (A142)-WBM	ON	5.47	47	D2
	051322	WBSC LM3 (A144)-WBM	ON	6.84	47	D3
	051401	DC-DC XDUCEPS-FWD	ON	15.83	47	OT
	051402	DC-DC XDUCEPS-FWD	ON	5.58	12	OT
	051403	DC-DC XDUCEPS-FWD	ON	6.06	47	OT
	051404	DC-DC XDUCEPS-MID L1	ON	29.90	47	OT
	051405	DC-DC XDUCEPS-MID L1	ON	8.01	47	OT
	051406	DC-DC XDUCEPS-MID L1	ON	5.30	48	OT
	051407	DC-DC XDUCEPS-MID R2	ON	28.14	47	OT
	051408	DC-DC XDUCEPS-MID R2	ON	1.95	47	OT

Figure 6.3-1. - Continued

	051409	DC-DC XDUCCERS-MID R2	ON	3.53	48	OT	
	051411	DC-DC XDUCCERS-MID L3	ON	.78	47	OT	
	051412	DC-DC XDUCCERS-MID L3	ON	18.70	47	OT	
	051503	SGSC FWD (A161)-WBM	ON	5.52	12	DW	
	051504	SGSC FWD (A161)-WBM	ON	15.90	12	DW	
	051612	SGSC ML1 (A162)-WBM	ON	15.05	47	D1	
	051613	SGSC ML1 (A162)-WBM	ON	15.11	48	D1	
	051622	SGSC ML1 (A163)-WBM	ON	30.23	48	D1	
	051623	SGSC ML1 (A163)-WBM	ON	7.52	47	D1	
	051652	SGSC MR2 (A169)-WBM	ON	30.23	48	D2	
	051653	SGSC MR2 (A169)-WBM	ON	22.57	47	D2	
	051662	SGSC ML3 (A166)-WBM	ON	30.10	47	D3	
	051672	SGSC ML3 (A167)-WBM	ON	45.14	47	D3	
	220101	FWD THRUSTER F1F (-X)	CHANGED TO	.34	22	OT	
	220105	FWD THRUSTER F2F (-X)	CHANGED TO	.34	23	OT	
	220109	FWD THRUSTER F3F (-X)	CHANGED TO	.34	24	OT	
	220111	FWD THRUSTER F3L (+Y)	CHANGED TO	.34	24	OT	
	220201	AFT THRUSTER R1R (-Y)	CHANGED TO	.45	78	OT	
	220204	AFT THRUSTER R2R (-Y)	CHANGED TO	.45	80	OT	
	220207	AFT THRUSTER R3R (-Y)	CHANGED TO	.45	79	OT	
	220214	AFT THRUSTER L1L (+Y)	CHANGED TO	.45	78	OT	
	220217	AFT THRUSTER L2L (+Y)	CHANGED TO	.45	80	OT	
	220221	AFT THRUSTER L3L (+Y)	CHANGED TO	.45	79	OT	
	405001	NH3 SYSTEM CNTLR A	ON	6.07	87	OT	
	405002	NH3 SYSTEM CNTLR B	ON	5.88	88	OT	
		-- TOTAL SOURCE POWER IS NOW	22.47 KW --				
552	053:12:00.0	305101	G02 PRG LNE HTR AUT	OFF	.00	48	OT
		305201	G02 PRG LNE HTR AUT	OFF	.00	48	OT
		-- TOTAL SOURCE POWER IS NOW	22.37 KW --				
	053:18:00.0	061803	H202 CRYO ASY1A-H2CY	OFF	.00	7	FM
		061804	H202 CRYO ASY1B-H2CY	OFF	.00	9	FM
		061813	H202 CRYO ASY2A-H2CY	OFF	.00	8	FM
		061814	H202 CRYO ASY2B-H2CY	OFF	.00	9	FM
		311901	H2 TANK 1 HEATER A	OFF	.00	7	OT
		311902	H2 TANK 1 HEATER B	OFF	.00	9	OT
		311903	H2 TANK 2 HEATER A	OFF	.00	9	OT
		311904	H2 TANK 2 HEATER B	OFF	.00	8	OT
		-- TOTAL SOURCE POWER IS NOW	21.94 KW --				
	053:27:04.0	500601	MN PMP #1 DEPRES VLV	ON	23.11	66	OT
		500602	MN PMP #2 DEPRES VLV	ON	23.11	67	OT
		500603	MN PMP #3 DEPRES VLV	ON	23.11	68	OT
		-- TOTAL SOURCE POWER IS NOW	22.02 KW --				
	053:28:03.0	503501	WSB #1 GN2 CTL VL A	ON	41.18	65	OT
		503503	WSB #2 GN2 CTL VL A	ON	40.41	63	OT
		503505	WSB #3 GN2 CTL VL A	ON	41.19	64	OT
		-- TOTAL SOURCE POWER IS NOW	22.14 KW --				
	053:28:03.0	503501	WSB #1 GN2 CTL VL A	OFF	.00	65	OT

Figure 6.3-1. - Continued

	503503	WSB #2 GN2 CTL VLV A	OFF	.00	63	OT
	503505	WSB #3 GN2 CTL VLV A	OFF	.00	64	OT
	-- TOTAL SOURCE POWER IS NOW 22.02 KW --					
053:28:04.0	320201	APU 1 FU ISO VLV 1	ON	32.02	63	OT
	320202	APU 1 FU ISO VLV 2	ON	32.01	64	OT
	320203	APU 2 FU ISO VLV 1	ON	32.01	64	OT
	320204	APU 2 FU ISO VLV 2	ON	32.00	65	OT
	320205	APU 3 FU ISO VLV 1	ON	32.00	65	OT
	320206	APU 3 FU ISO VLV 2	ON	32.02	63	OT
	320301	APU1 CNTRLR-OPERATE	CHANGED TO	19.99	66	F4
	320302	APU2 CNTRLR-OPERATE	CHANGED TO	19.99	67	F5
	320303	APU3 CNTRLR-OPERATE	CHANGED TO	19.99	68	F6
	320401	APU 1 SHUTOFF VLV	ON	35.51	66	OT
	320402	APU 2 SHUTOFF VLV	ON	35.51	67	OT
	320403	APU 3 SHUTOFF VLV	ON	35.51	68	OT
	320501	APU 1 MODULATING VLV	ON	17.76	66	OT
	320502	APU 2 MODULATING VLV	ON	17.75	67	OT
	320503	APU 3 MODULATING VLV	ON	17.75	68	OT
	501801	RUD/SPBK SW VLV ACT 1	ON	1.34	213	OT
	501802	RUD/SPBK SW VLV PS2	ON	1.35	216	OT
	501901	ME 1 PITCH SW V ACTV	ON	1.35	216	OT
	501902	ME 1 YAW SW ACTV	ON	1.35	216	OT
	501903	ME 2 PITCH SW V ACTV	ON	1.35	216	OT
	501904	ME 2 YAW SW V ACTV	ON	1.35	216	OT
	501905	ME 3 PITCH SW V ACTV	ON	1.35	216	OT
	501906	ME 3 YAW SW V ACTV	ON	1.35	216	OT
	502001	ELV ACT SW V ACT-LO	ON	1.34	213	OT
	502002	ELV ACT SW V PS2-LO	ON	1.35	216	OT
	502003	ELV ACT SW V ACT-LI	ON	1.34	213	OT
	502004	ELV ACT SW V PS2-LI	ON	1.35	216	OT
	502005	ELV ACT SW V ACT-RI	ON	1.34	213	OT
	502006	ELV ACT SW V PS2-RI	ON	1.35	216	OT
	502007	ELV ACT SW V ACT-RO	ON	1.34	213	OT
	502008	ELV ACT SW V PS2-RO	ON	1.35	216	OT
	-- TOTAL SOURCE POWER IS NOW 22.45 KW --					
053:28:09.0	500601	MN PHP #1 DEPRES VLV	OFF	.00	66	OT
	500602	MN PHP #2 DEPRES VLV	OFF	.00	67	OT
	500603	MN PHP #3 DEPRES VLV	OFF	.00	68	OT
	-- TOTAL SOURCE POWER IS NOW 22.38 KW --					
053:29:04.0	212501	ENG PRESU V COIL 1LP	ON	31.11	84	OT
	212502	ENG PRESU V COIL 2LP	ON	31.12	85	OT
	212601	ENG PRESU V COIL 1RP	ON	31.11	86	OT
	212602	ENG PRESU V COIL 2RP	ON	31.11	84	OT
	-- TOTAL SOURCE POWER IS NOW 22.51 KW --					
053:30:34.0	050910	WDBND RCDR (MARS)	ON	60.52	12	AC
	-- TOTAL SOURCE POWER IS NOW 22.57 KW --					
053:31:04.0	021101	S-BAND FM XMTR #1	OFF	.00	33	W3

Figure 6.3-1. - Continued

021200	S-BND FM SIG PRO-ORB	OFF	.00	36	A3
024701	SPKR MIKE UNIT -OS	OFF	.00	10	AC
024702	SPKR MIKE UNIT-MID DK	OFF	.00	11	AC
033701	MID DECK PANEL LT =1	OFF	.00	6	AC
033702	MID DECK PANEL LT =2	OFF	.00	4	AC
037301	ACA =1	CHANGED TO	33.30	16	AC
037302	ACA =2/3	CHANGED TO	67.28	17	AC
037303	ACA =4/5	CHANGED TO	55.42	18	AC
037401	ANNUN 1	CHANGED TO	12.53	16	AC
037402	ANNUN 2/3	CHANGED TO	23.32	17	AC
037403	ANNUN 4/5	CHANGED TO	19.65	18	AC
053500	TECH ELECTRONICS	OFF 40 POWER	.00	98	OT
062001	PROX SNSR EL PKG =1	ON	10.46	217	A1
062002	PROX SNSR EL PKG =2	ON	10.46	214	A2
062401	LOAD CNTL ASSY FWD1	CHANGED TO	22.98	32	W1
062402	LOAD CNTL ASSY FWD2	CHANGED TO	26.46	33	W2
062403	LOAD CNTL ASSY FWD3	CHANGED TO	23.99	34	W3
062501	LOAD CNTL ASSY AFT1	CHANGED TO	69.94	84	F4
062502	LOAD CNTL ASSY AFT2	CHANGED TO	68.86	85	F5
062503	LOAD CNTL ASSY AFT3	CHANGED TO	74.47	86	F6
062601	PCA FWD =1	CHANGED TO	87.43	22	W1
062602	PCA FWD =2	CHANGED TO	67.16	23	W2
062603	PCA FWD =3	CHANGED TO	34.36	24	W3
062701	PCA MID =1	CHANGED TO	38.61	47	FM
062702	PCA MID =2	CHANGED TO	28.19	48	FM
062703	PCA MID =3	CHANGED TO	30.03	49	FM
062801	PCA AFT =1	CHANGED TO	41.15	72	F4
062802	PCA AFT =2	CHANGED TO	29.13	73	F5
062803	PCA AFT =3	CHANGED TO	21.31	74	F6
062804	PCA AFT =4	CHANGED TO	36.51	60	F4
062805	PCA AFT =5	CHANGED TO	30.74	61	F5
062806	PCA AFT =6	CHANGED TO	14.39	62	F6
210101	VAP ISO VLV 1 LT POD	ON	48.70	75	OT
210102	VAP ISO VLV 2 LT POD	ON	48.74	76	OT
210201	HE ISO VLV A LFT POD	ON	69.71	75	OT
210202	HE ISO VLV B LFT POD	ON	69.77	76	OT
210301	VAP ISO VLV 1 RT POD	ON	48.70	75	OT
210302	VAP ISO VLV 2 RT POD	ON	48.73	77	OT
210401	HE ISO VLV A RGT POD	ON	69.71	75	OT
210402	HE ISO VLV B RGT POD	ON	69.75	77	OT
210801	LP PTH ACT GMBL BURN	ON	57.30	75	OT
210802	RP YAW ACT GMBL BURN	ON	57.30	75	OT
210901	RP PTH ACT GMBL BURN	ON	57.33	77	OT
210902	RP YAW ACT GMBL BURN	ON	57.33	77	OT
212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	27.93	78	OT
212402	QUAN GAGE TOT-PP-OPR	CHANGED TO	27.92	80	OT
212701	ENG CTL V 1 COIL 1LP	ON	30.48	84	OT
212702	ENG CTL V 1 COIL 2LP	ON	30.50	85	OT
212801	ENG CTL V 2 COIL 1LP	ON	30.48	84	OT
212802	ENG CTL V 2 COIL 2LP	ON	30.50	85	OT
212901	ENG CTL V 1 COIL 1RP	ON	30.48	86	OT
212902	ENG CTL V 1 COIL 2RP	ON	30.48	84	OT
213001	ENG CTL V 2 COIL 1RP	ON	30.48	86	OT
213002	ENG CTL V 2 COIL 2RP	ON	30.48	84	OT
3J5601	H2O NOZ BARREL HTR A	ON	2.85	47	OT

-- TOTAL SOURCE POWER IS NOW 23.75 KW --

Figure 6.3-1. - Continued

053:33:04.0	213301	ENGINE PURGE VLVE-LP	ON	60.82	84	OT
	213302	ENGINE PURGE VLVE-RP	ON	60.82	86	OT
-- TOTAL SOURCE POWER IS NOW 23.88 KW --						
053:33:06.0	213301	ENGINE PURGE VLVE-LP	OFF	.00	84	OT
	213302	ENGINE PURGE VLVE-RP	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 23.75 KW --						
053:33:32.0	210101	VAP ISO VLV 1 LT POD	OFF	.00	75	OT
	210102	VAP ISO VLV 2 LT POD	OFF	.00	76	OT
	210201	HE ISO VLV A LFT POD	OFF	.00	75	OT
	210202	HE ISO VLV R LFT POD	OFF	.00	76	OT
	210301	VAP ISO VLV 1 RT POD	OFF	.00	75	OT
	210302	VAP ISO VLV 2 RT POD	OFF	.00	77	OT
	210401	HE ISO VLV A RGT POD	OFF	.00	75	OT
	210402	HE ISO VLV R RGT POD	OFF	.00	77	OT
	210901	LP PTH ACT GMBL PURN	OFF	.00	75	OT
	210902	LP YAW ACT GMBL PURN	OFF	.00	75	OT
	210901	RP PTH ACT GMBL PURN	OFF	.00	77	OT
	210902	RP YAW ACT GMBL PURN	OFF	.00	77	OT
	212401	QUAN GAGE TOT-LP-OPR	CHANGED TO	9.03	78	OT
	212402	QUAN GAGE TOT-PP-OPR	CHANGED TO	9.03	80	OT
	212501	ENG PRESU V COIL 1LP	OFF	.00	84	OT
	212502	ENG PRESU V COIL 2LP	OFF	.00	95	OT
	212601	ENG PRESU V COIL 1RP	OFF	.00	86	OT
	212602	ENG PRESU V COIL 2RP	OFF	.00	84	OT
	212701	ENG CTL V 1 COIL 1LP	OFF	.00	84	OT
	212702	ENG CTL V 1 COIL 2LP	OFF	.00	85	OT
	212801	ENG CTL V 2 COIL 1LP	OFF	.00	84	OT
	212802	ENG CTL V 2 COIL 2LP	OFF	.00	85	OT
	212901	ENG CTL V 1 COIL 1RP	OFF	.00	86	OT
	212902	ENG CTL V 1 COIL 2RP	OFF	.00	84	OT
	213001	ENG CTL V 2 COIL 1RP	OFF	.00	86	OT
	213002	ENG CTL V 2 COIL 2RP	OFF	.00	84	OT
-- TOTAL SOURCE POWER IS NOW 22.59 KW --						
053:34:04.0	503401	H2O BR1 APU H2O CT A	ON	14.71	65	OT
	503403	H2O BR2 APU H2O CT A	ON	12.33	63	OT
	503405	H2O BR3 APU H2O CT A	ON	11.70	64	OT
-- TOTAL SOURCE POWER IS NOW 22.63 KW --						
053:36:04.0	220602	HE OX ISO V A FWD-CL	ON	35.41	22	OT
	220606	HE FU ISO V A FWD-CL	ON	35.41	22	OT
-- TOTAL SOURCE POWER IS NOW 22.70 KW --						
053:36:34.3	220602	HE OX ISO V A FWD-CL	OFF	.00	22	OT
	220606	HE FU ISO V A FWD-CL	OFF	.00	22	OT
-- TOTAL SOURCE POWER IS NOW 22.63 KW --						
053:41:04.0	220101	FWD THRUSTER FIF(-X)	OFF	.00	22	OT

Figure 6.3-1. - Continued

	220105	FWD THRUSTER F2F(-X)	OFF	.00	23	OT
	220109	FWD THRUSTER F3F(-X)	OFF	.00	24	OT
	220111	FWD THRUSTER F3L(+Y)	OFF	.00	24	OT
	5J3601	WSB1 HYD BYD CT VL A	ON	27.50	217	OT
	5J3603	WSB2 HYD BYD CT VL A	ON	27.97	213	OT
	5J3605	WSB3 HYD BYD CT VL A	ON	27.71	214	OT
	-- TOTAL SOURCE POWER IS NOW 22.71 KW --					
053:41:54.0	5J3601	WSB1 HYD BYD CT VL A	OFF	.00	217	OT
	5J3603	WSB2 HYD BYD CT VL A	OFF	.00	213	OT
	5J3605	WSB3 HYD BYD CT VL A	OFF	.00	214	OT
	-- TOTAL SOURCE POWER IS NOW 22.63 KW --					
053:43:04.0	5J3301	H2O BR1 HYD H2O CT A	ON	14.70	65	OT
	5J3303	H2O BR2 HYD H2O CT A	ON	12.32	63	OT
	5J3305	H2O BR3 HYD H2O CT A	ON	11.69	64	OT
	-- TOTAL SOURCE POWER IS NOW 22.67 KW --					
053:48:44.0	353700	ACIP PACKAGE	ON	104.39	49	OT
	053800	ACIP PCM MASTER	ON	19.70	49	OT
	053900	ACIP PCM SLAVE	ON	11.82	49	OT
	054000	ACIP MINI DHE	ON	19.70	49	OT
	054010	INTF CNTL MOD-ACIP	ON	3.74	49	AC
	-- TOTAL SOURCE POWER IS NOW 22.83 KW --					
053:59:14.0	010901	ASA1 PWR SUP LOG-OPR	CHANGED TO	52.50	66	F4
	010902	ASA2 PWR SUP LOG-OPR	CHANGED TO	52.50	67	F5
	010903	ASA3 PWR SUP LOG-OPR	CHANGED TO	52.50	68	F6
	010904	ASA4 PWR SUP LOG-OPR	CHANGED TO	52.50	80	F6
	011001	ASA =1 IVD/RF-OPER	CHANGED TO	2.50	66	F4
	011002	ASA =2 IVD/RF-OPER	CHANGED TO	2.50	66	F5
	011003	ASA =3 IVD/RF-OPER	CHANGED TO	2.50	67	F6
	011004	ASA =4 IVD-OPER	CHANGED TO	1.40	76	F6
	011011	ASA 1 ACTUATORS-OPER	CHANGED TO	33.87	66	OT
	011012	ASA 2 ACTUATORS-OPER	CHANGED TO	33.87	67	OT
	011013	ASA 3 ACTUATORS-OPER	CHANGED TO	33.86	68	OT
	011014	ASA 4 ACTUATORS-OPER	CHANGED TO	16.31	80	OT
	028101	TV CAM HTR-FWD PLB	OFF	.00	11	OT
	028102	TV CAM HTR-AFT PLB	OFF	.00	10	OT
	028105	TV CAM HTR-KEEL BAY	OFF	.00	15	OT
	028201	PAN TLT HTR-FWD BAY	OFF	.00	11	OT
	028202	PAN TLT HTR-AFT BAY	OFF	.00	10	OT
	028203	PAN TLT HTR-KEEL BAY	OFF	.00	15	OT
	054750	IECM CNTL HTPS	OFF NO POWER	.00	98	OT
	062402	LOAD CNTL ASSY FWD2	CHANGED TO	26.31	33	W2
	062501	LOAD CNTL ASSY AFT1	CHANGED TO	68.91	84	F4
	062502	LOAD CNTL ASSY AFT2	CHANGED TO	65.60	85	F5
	062503	LOAD CNTL ASSY AFT3	CHANGED TO	73.95	86	F6
	062601	PCA FWD =1	CHANGED TO	85.49	22	W1
	062602	PCA FWD =2	CHANGED TO	50.66	23	W2
	062603	PCA FWD =3	CHANGED TO	37.70	24	W3
	062701	PCA MID =1	CHANGED TO	38.22	47	FM
	062702	PCA MID =2	CHANGED TO	29.30	48	FM

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Figure 6.3-1. - Continued

062703	PCA MID =3	CHANGED TO	29.94	49	FM
062801	PCA AFT =1	CHANGED TO	26.76	72	F4
062802	PCA AFT =2	CHANGED TO	23.23	73	F5
062803	PCA AFT =3	CHANGED TO	23.36	74	F6
062804	PCA AFT =4	CHANGED TO	28.61	60	F4
062805	PCA AFT =5	CHANGED TO	32.44	61	F5
062806	PCA AFT =6	CHANGED TO	15.09	62	F6
203600	ENG 2 PNEU XOVER VLV	ON	36.45	86	OT
215101	GSE SR PN HT A-43-LP	CHANGED TO	4.94	72	OT
215102	ENG SR PN HT A-37-LP	CHANGED TO	4.84	72	OT
215103	OME COVER HT A-53-LP	CHANGED TO	19.91	72	OT
215104	Y-WB OT3D HT A-27-LP	CHANGED TO	15.36	72	OT
215105	Y-WB INBD HT A-33-LP	CHANGED TO	11.30	72	OT
215106	Y-WB UPR HT A-31-LP	OFF	.00	72	OT
215107	CT LN WB HT A1-21-LP	CHANGED TO	36.40	72	OT
215108	CT LN WB HT A2-21-LP	CHANGED TO	38.32	72	OT
215109	CT LN WB HT A3-21-LP	CHANGED TO	19.15	72	OT
215111	CT LN WB HT A4-21-LP	CHANGED TO	39.28	72	OT
215112	RCS HSNB HT A1-41-LP	CHANGED TO	12.42	72	OT
215113	RCS HSNB HT A2-41-LP	CHANGED TO	18.72	72	OT
215301	CSE SR PN HT A-44-RP	CHANGED TO	4.94	73	OT
215302	ENG SR PN HT A-38-RP	CHANGED TO	4.84	73	OT
215303	OME COVER HT A-54-RP	CHANGED TO	19.91	73	OT
215304	Y-WB OT3D HT A-28-RP	CHANGED TO	15.36	73	OT
215305	Y-WB INBD HT A-34-RP	CHANGED TO	11.30	73	OT
215306	Y-WB UPR HT A-32-RP	OFF	.00	73	OT
215307	CT LN WB HT A1-22-RP	CHANGED TO	36.40	73	OT
215308	CT LN WB HT A2-22-RP	CHANGED TO	38.32	73	OT
215309	CT LN WB HT A3-22-RP	CHANGED TO	19.15	73	OT
215311	CT LN WB HT A4-22-RP	CHANGED TO	39.28	73	OT
215312	RCS HSNB HT A1-42-RP	CHANGED TO	12.42	73	OT
215313	RCS HSNB HT A2-42-RP	CHANGED TO	18.72	73	OT
217001	XFD OX/FU FLXL HTA-L	CHANGED TO	12.07	72	OT
217003	XFD OX/FU FLXL HTA-R	CHANGED TO	12.07	72	OT
217101	XFD OX/FU LNE HT-A-L	CHANGED TO	8.05	72	OT
217103	XFD OX/FU LNE HT-A-R	CHANGED TO	8.05	72	OT
217105	XFD OX/FU LNE HT-A-C	CHANGED TO	11.74	72	OT
217201	FU HIPT BLDLN HT-A-A	CHANGED TO	3.77	72	OT
217203	FU HIPT BLDLN HT-A-M	CHANGED TO	8.26	72	OT
217301	OX HIPT BLDLN HT-A-A	CHANGED TO	3.93	72	OT
217303	OX HIPT BLDLN HT-A-M	CHANGED TO	8.50	72	OT
217401	LOPT OXFU DRLN HTA-L	CHANGED TO	.51	72	OT
217403	LOPT OXFU DRLN HTA-R	CHANGED TO	.51	72	OT
225101	FWD RCS HT-ENG F1F-X	CHANGED TO	1.83	7	OT
225102	FWD RCS HT-ENG F1L+Y	CHANGED TO	.75	7	OT
225103	FWD RCS HT-ENG F1U+Z	CHANGED TO	1.93	7	OT
225104	FWD RCS HT-ENG F1D-Z	CHANGED TO	1.07	7	OT
225105	FWD RCS HT-ENG F2F-X	CHANGED TO	2.47	8	OT
225106	FWD RCS HT-ENG F2R-Y	CHANGED TO	.66	8	OT
225107	FWD RCS HT-ENG F2U+Z	CHANGED TO	1.93	8	OT
225108	FWD RCS HT-ENG F2D-Z	CHANGED TO	1.18	8	OT
225109	FWD RCS HT-ENG F3F-X	CHANGED TO	2.15	8	OT
225111	FWD RCS HT-ENG F3L+Y	CHANGED TO	.54	8	OT
225112	FWD RCS HT-ENG F3U+Z	CHANGED TO	1.83	8	OT
225113	FWD RCS HT-ENG F3D-Z	CHANGED TO	.97	8	OT
225114	FWD RCS HT-ENG F4R-Y	CHANGED TO	.75	9	OT
225115	FWD RCS HT-ENG F4D-Z	CHANGED TO	.86	9	OT

Figure 6.3-1. - Continued

225201	AFT RCS HT-ENG R1R-Y	CHANGED TO	.43	85	OT
225202	AFT RCS HT-ENG R2R-Y	CHANGED TO	.43	84	OT
225203	AFT RCS HT-ENG R3R-Y	CHANGED TO	.43	86	OT
225204	AFT RCS HT-ENG R4R-Y	CHANGED TO	.43	86	OT
225205	AFT RCS HT-ENG R2D-Z	CHANGED TO	.43	84	OT
225206	AFT RCS HT-ENG R3D-Z	CHANGED TO	.43	86	OT
225207	AFT RCS HT-ENG R4D-Z	CHANGED TO	.43	86	OT
225208	AFT RCS HT-ENG R1U+Z	CHANGED TO	.64	85	OT
225209	AFT RCS HT-ENG R2U+Z	CHANGED TO	.64	84	OT
225211	AFT RCS HT-ENG R4U+Z	CHANGED TO	.64	86	OT
225212	AFT RCS HT-ENG R1A+X	CHANGED TO	.65	85	OT
225213	AFT RCS HT-ENG R3A+X	CHANGED TO	1.29	86	OT
225301	AFT RCS HT-ENG L1L+Y	CHANGED TO	.43	85	OT
225302	AFT RCS HT-ENG L2L+Y	CHANGED TO	.43	84	OT
225303	AFT RCS HT-ENG L3L+Y	CHANGED TO	.43	86	OT
225304	AFT RCS HT-ENG L4L+Y	CHANGED TO	.43	86	OT
225305	AFT RCS HT-ENG L2D-Z	CHANGED TO	.43	84	OT
225306	AFT RCS HT-ENG L3D-Z	CHANGED TO	.43	86	OT
225307	AFT RCS HT-ENG L4D-Z	CHANGED TO	.43	86	OT
225308	AFT RCS HT-ENG L1U+Z	CHANGED TO	.64	85	OT
225309	AFT RCS HT-ENG L2U+Z	CHANGED TO	.64	84	OT
225311	AFT RCS HT-ENG L4U+Z	CHANGED TO	.64	86	OT
225312	AFT RCS HT-ENG L1A+X	CHANGED TO	.65	85	OT
225313	AFT RCS HT-ENG L3A+X	CHANGED TO	1.29	86	OT
225401	FWD VRN HT-ENG F5R	CHANGED TO	.59	9	OT
225402	FWD VRN HT-ENG F5L	CHANGED TO	.54	9	OT
225501	AFT VRN HT-ENG R5D-Z	CHANGED TO	.43	86	OT
225502	AFT VRN HT-ENG R5R-Y	CHANGED TO	2.21	86	OT
225503	AFT VRN HT-ENG L5D-Z	CHANGED TO	.43	86	OT
225504	AFT VRN HT-ENG L5L+Y	CHANGED TO	2.21	86	OT
305301	H2O VENT LN HTR A	CHANGED TO	.61	47	OT
305401	FCP1 H2O RLF VL HT A	CHANGED TO	.24	47	OT
305403	FCP2 H2O RLF VL HT A	CHANGED TO	.24	47	OT
305405	FCP3 H2O RLF VL HT A	CHANGED TO	.24	47	OT
305601	H2O NOZ BARREL HTR A	CHANGED TO	1.42	47	OT
305602	H2O NOZ BARREL HTR B	OFF	.00	49	OT
305702	H2O NOZ ORIFICE HT B	OFF	.00	49	OT
325201	FUEL FEEDLINE HTR 1A	CHANGED TO	67.70	84	OT
325203	FUEL FEEDLINE HTR 2A	CHANGED TO	81.00	85	OT
325295	FUEL FEEDLINE HTR 3A	CHANGED TO	47.70	86	OT
325301	FUEL SERVLIN HTR 1A	CHANGED TO	18.06	84	OT
325303	FUEL SERVLIN HTR 2A	CHANGED TO	13.36	85	OT
325305	FUEL SERVLIN HTR 3A	CHANGED TO	18.06	86	OT
325401	FUEL DRN LINE HTR 1A	CHANGED TO	11.10	84	OT
325403	FUEL DRN LINE HTR 2A	CHANGED TO	14.39	85	OT
325405	FUEL DRN LINE HTR 3A	CHANGED TO	9.16	86	OT
325601	TURB GAS GEN HTR 1A	OFF	.00	84	OT
325603	TURB GAS GEN HTR 2A	OFF	.00	85	OT
325605	TURB GAS GEN HTR 3A	OFF	.00	86	OT
325701	OIL LINE HTR 1A	OFF	.00	84	OT
325703	OIL LINE HTR 2A	OFF	.00	85	OT
325705	OIL LINE HTR 3A	OFF	.00	86	OT
408101	PRI FWTR LN HTA-TS5	OFF	.00	84	OT
408103	PRI FWTR LN HTA-TS6	OFF	.00	84	OT
408105	PRI FWTR LN HTA-TS7	OFF	.00	47	OT
408107	PRI FWTR LN HTA-TS5	OFF	.00	84	OT
408201	SEC FWTR LN HTA-TS11	CHANGED TO	1.48	86	OT

Figure 6.3-1. - Continued

	408203	SEC FWTR LN HTA-TS12	CHANGED TO	3.39	86	OT
	408205	SEC FWTR LN HTA-TS13	CHANGED TO	11.24	49	OT
	408207	SEC FWTR LN HTA-TS3	CHANGED TO	6.29	86	OT
	408501	HI LD DUCT HTR1 SEC1	ON	553.60	47	OT
	408601	HI LD DUCT HTR1 SEC2	ON	254.60	47	OT
	408701	HI LD DCT NOZ HT GP1	ON	130.70	47	OT
	409001	TOP G DUCT HTR1 SEC1	CHANGED TO	378.90	47	OT
	409101	TOP G DUCT HTR1 SEC2	CHANGED TO	468.60	47	OT
	409201	TOP G DUCT HTR1 SEC3	CHANGED TO	62.80	84	OT
	409301	TOP G DUCT HTR1 SEC4	CHANGED TO	64.80	84	OT
	409401	SONIC LFT NOZ HTR 1A	CHANGED TO	25.00	84	OT
	409501	SONIC RHT NOZ HTR 2A	CHANGED TO	24.70	85	OT
	505301	WSB TK/BOILER HTR 1A	OFF	.00	65	OT
	505303	WSB TK/BOILER HTR 2A	OFF	.00	63	OT
	505305	WSB TK/BOILER HTR 3A	OFF	.00	64	OT
	520601	BODYFLAP ACT ISO V 1	ON	14.07	68	OT
	520602	BODYFLAP ACT ISO V 2	ON	14.07	66	OT
	520603	BODYFLAP ACT ISO V 3	ON	14.07	67	OT
-- TOTAL SOURCE POWER IS NOW 24.23 KW --						
054:09:14.0	202201	PNEU HE SPY ISO VL 1	ON	36.38	84	OT
	202202	PNEU HE SPY ISO VL 2	ON	36.41	85	OT
-- TOTAL SOURCE POWER IS NOW 24.31 KW --						
054:15:44.0	502703	LG ISOL VLV SYS =3	ON	17.64	86	OT
-- TOTAL SOURCE POWER IS NOW 24.33 KW --						
054:15:44.3	502703	LG ISOL VLV SYS =3	OFF	.00	86	OT
-- TOTAL SOURCE POWER IS NOW 24.31 KW --						
054:18:44.0	053001	PAD CAMERA-LH WIND	ON	16.81	16	AC
	053002	PAD CAMERA-CREW	ON	16.87	17	AC
-- TOTAL SOURCE POWER IS NOW 24.34 KW --						
054:19:14.0	021701	TACAN =1 SEARCH	CHANGED TO	196.08	213	A1
	021702	TACAN =2 SEARCH	CHANGED TO	196.08	216	A2
	021703	TACAN =3 SEARCH	CHANGED TO	196.29	219	A3
-- TOTAL SOURCE POWER IS NOW 24.30 KW --						
054:20:44.0	502702	LG ISOL VLV SYS =2	ON	17.64	85	OT
-- TOTAL SOURCE POWER IS NOW 24.32 KW --						
054:20:44.3	502702	LG ISOL VLV SYS =2	OFF	.00	85	OT
-- TOTAL SOURCE POWER IS NOW 24.30 KW --						
054:23:39.0	403801	FES HI LD PLSR V-PRI	OFF	.00	89	OT
	403811	FES HI LD ISO VL-PRI	OFF	.00	89	OT
	403901	FES TOP G PLSR V-PRI	OFF	.00	89	OT
	403921	TPNG V HLDNG COIL-PR	OFF	.00	89	OT

Figure 6.3-1. - Continued

	408501	HI LD DUCT HTR1 SEC1	OFF	.00	47	OT
	408601	HI LD DUCT HTR1 SEC2	OFF	.00	47	OT
	408701	HI LD DUCT NOZ HT GP1	OFF	.00	47	OT
	409101	TOP'G DUCT HTR1 SEC1	CHANGED TO	159.14	47	OT
	409201	TOP'G DUCT HTR1 SEC2	CHANGED TO	175.72	47	OT
	409301	TOP'G DUCT HTR1 SEC3	CHANGED TO	19.78	84	OT
	409401	TOP'G DUCT HTR1 SEC4	CHANGED TO	20.41	84	OT
	409501	SONIC LFT NOZ HTR 1A	CHANGED TO	6.67	84	OT
	409501	SONIC RHT NOZ HTR 2A	CHANGED TO	6.79	85	OT
-- TOTAL SOURCE POWER IS NOW 22.57 KW --						
054:23:41.0	521801	AIR DATA PRR ACT LH1	ON	43.17	201	OT
	521802	AIR DATA PRR ACT LH2	ON	43.14	202	OT
	522001	AIR DATA PRR ACT RH1	ON	43.17	203	OT
	522002	AIR DATA PRR ACT RH2	ON	43.14	202	OT
-- TOTAL SOURCE POWER IS NOW 22.75 KW --						
054:23:56.0	521801	AIR DATA PRR ACT LH1	OFF	.00	201	OT
	521802	AIR DATA PRR ACT LH2	OFF	.00	202	OT
	522001	AIR DATA PRR ACT RH1	OFF	.00	203	OT
	522002	AIR DATA PRR ACT RH2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 22.57 KW --						
054:24:12.0	405101	NH3 ISO VLV-SYS A	ON	9.08	89	OT
	405102	NH3 ISO VLV-SYS B	ON	8.98	88	OT
	405201	NH3 CNTL VLV=1-SYS A	ON	7.94	84	OT
	405203	NH3 CNTL VLV=1-SYS B	ON	7.93	86	OT
-- TOTAL SOURCE POWER IS NOW 22.61 KW --						
054:25:37.0	523101	VNT DR L MD 4/7 SYS1	ON	117.89	203	OT
	523102	VNT DR L MD 4/7 SYS2	ON	117.65	202	OT
	523103	VNT DR R MD 4/7 SYS1	ON	117.89	203	OT
	523104	VNT DR R MD 4/7 SYS2	ON	117.65	202	OT
-- TOTAL SOURCE POWER IS NOW 23.10 KW --						
054:25:37.5	522901	VNT DR L MID 3 SYS 1	ON	118.08	201	OT
	522902	VNT DR L MID 3 SYS 2	ON	117.65	202	OT
	522903	VNT DR R MID 3 SYS 1	ON	118.08	201	OT
	522904	VNT DR R MID 3 SYS 2	ON	118.06	203	OT
-- TOTAL SOURCE POWER IS NOW 23.61 KW --						
054:25:38.0	523201	VNT DR L MID 6 SYS 1	ON	118.62	201	OT
	523202	VNT DR L MID 6 SYS 2	ON	118.35	203	OT
	523203	VNT DR R MID 6 SYS 1	ON	118.62	201	OT
	523204	VNT DR R MID 6 SYS 2	ON	117.65	202	OT
-- TOTAL SOURCE POWER IS NOW 24.12 KW --						
054:25:38.5	523001	VNT DR L MID 5 SYS 1	ON	119.43	201	OT
	523002	VNT DR L MID 5 SYS 2	ON	117.65	202	OT
	523003	VNT DR R MID 5 SYS 1	ON	119.43	201	OT

Figure 6.3-1. - Continued

	523004	VNT DR R MID 5 SYS 2	ON	118.66	203	OT
		-- TOTAL SOURCE POWER IS NOW 24.65 KW --				
054:25:39.0	522801	VNT DR L FD 1/2 SYS1	ON	119.00	203	OT
	522802	VNT DR L FD 1/2 SYS2	ON	117.77	202	OT
	522803	VNT DR R FD 1/2 SYS1	ON	119.88	201	OT
	522804	VNT DR R FD 1/2 SYS2	ON	117.77	202	OT
		-- TOTAL SOURCE POWER IS NOW 25.18 KW --				
054:25:39.5	523301	VNT DR L AF 8/9 SYS1	ON	118.25	202	OT
	523302	VNT DR L AF 8/9 SYS2	ON	120.36	201	OT
	523303	VNT DR R AF 8/9 SYS1	ON	119.39	203	OT
	523304	VNT DR R AF 8/9 SYS2	ON	118.25	202	OT
		-- TOTAL SOURCE POWER IS NOW 25.72 KW --				
054:25:42.0	523101	VNT DR L MD 4/7 SYS1	OFF	.00	203	OT
	523102	VNT DR L MD 4/7 SYS2	OFF	.00	202	OT
	523103	VNT DR R MD 4/7 SYS1	OFF	.00	203	OT
	523104	VNT DR R MD 4/7 SYS2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 25.19 KW --				
054:25:42.5	522901	VNT DR L MID 3 SYS 1	OFF	.00	201	OT
	522902	VNT DR L MID 3 SYS 2	OFF	.00	202	OT
	522903	VNT DR R MID 3 SYS 1	OFF	.00	201	OT
	522904	VNT DR R MID 3 SYS 2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 24.84 KW --				
054:25:43.0	523201	VNT DR L MID 6 SYS 1	OFF	.00	201	OT
	523202	VNT DR L MID 6 SYS 2	OFF	.00	203	OT
	523203	VNT DR R MID 6 SYS 1	OFF	.00	201	OT
	523204	VNT DR R MID 6 SYS 2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 24.12 KW --				
054:25:43.5	523001	VNT DR L MID 5 SYS 1	OFF	.00	201	OT
	523002	VNT DR L MID 5 SYS 2	OFF	.00	202	OT
	523003	VNT DR R MID 5 SYS 1	OFF	.00	201	OT
	523004	VNT DR R MID 5 SYS 2	OFF	.00	203	OT
		-- TOTAL SOURCE POWER IS NOW 23.60 KW --				
054:25:44.0	502701	LG ISOL VLV SYS =1	ON	17.87	84	OT
	522801	VNT DR L FD 1/2 SYS1	OFF	.00	203	OT
	522802	VNT DR L FD 1/2 SYS2	OFF	.00	202	OT
	522803	VNT DR R FD 1/2 SYS1	OFF	.00	201	OT
	522804	VNT DR R FD 1/2 SYS2	OFF	.00	202	OT
		-- TOTAL SOURCE POWER IS NOW 23.12 KW --				
054:25:44.3	502701	LG ISOL VLV SYS =1	OFF	.00	84	OT
		-- TOTAL SOURCE POWER IS NOW 23.10 KW --				

Figure 6.3-1. - Continued

054:25:44.5	523301	VNT DR L AF 8/9 SYS1	OFF	.00	202	OT
	523302	VNT DR L AF 8/9 SYS2	OFF	.00	201	OT
	523303	VNT DR R AF 8/9 SYS1	OFF	.00	203	OT
	523304	VNT DR R AF 8/9 SYS2	OFF	.00	202	OT

-- TOTAL SOURCE POWER IS NOW 22.61 KW --

054:26:28.0	220201	AFT THRUSTER R1R(-Y)	OFF	.00	78	OT
	220204	AFT THRUSTER R2R(-Y)	OFF	.00	80	OT
	220207	AFT THRUSTER R3R(-Y)	OFF	.00	79	OT
	220214	AFT THRUSTER L1L(+Y)	OFF	.00	78	OT
	220217	AFT THRUSTER L2L(+Y)	OFF	.00	80	OT
	220221	AFT THRUSTER L3L(+Y)	OFF	.00	79	OT

-- TOTAL SOURCE POWER IS NOW 22.61 KW --

054:27:05.0	525101	LEFT ADP HT-MAST	ON	240.00	28	OT
	525102	LEFT ADP HT-TTEMP	ON	355.00	28	OT
	525103	LEFT ADP HT-PROBE	ON	266.00	28	OT
	525104	RIGHT ADP HT-MAST	ON	240.00	29	OT
	525105	RIGHT ADP HT-TTEMP	ON	355.00	29	OT
	525106	RIGHT ADP HT-PROBE	ON	266.00	29	OT

-- TOTAL SOURCE POWER IS NOW 24.48 KW --

054:30:14.0	500500	REDUND SHUTOFF VLV	ON	16.38	29	OT
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-- TOTAL SOURCE POWER IS NOW 24.50 KW --

054:30:19.0	500100	LG EXTEND VLV	ON	16.82	22	OT
	500300	LAND GEAR DUMP VLV	ON	16.82	22	OT

-- TOTAL SOURCE POWER IS NOW 24.53 KW --

054:30:44.0	522600	NOSE WHEEL STEER UNIT	ON	38.10	16	OT
	522801	VNT DR L FD 1/2 SYS1	ON	119.39	203	OT
	522802	VNT DR L FD 1/2 SYS2	ON	118.25	202	OT
	522803	VNT DR R FD 1/2 SYS1	ON	120.38	201	OT
	522804	VNT DR R FD 1/2 SYS2	ON	118.25	202	OT
	522901	VNT DR L MID 3 SYS 1	ON	120.38	201	OT
	522902	VNT DR L MID 3 SYS 2	ON	118.25	202	OT
	522903	VNT DR R MID 3 SYS 1	ON	120.38	201	OT
	522904	VNT DR R MID 3 SYS 2	ON	119.39	203	OT
	523001	VNT DR L MID 5 SYS 1	ON	120.38	201	OT
	523002	VNT DR L MID 5 SYS 2	ON	118.25	202	OT
	523003	VNT DR R MID 5 SYS 1	ON	120.38	201	OT
	523004	VNT DR R MID 5 SYS 2	ON	119.39	203	OT
	523101	VNT DR L MD 4/7 SYS1	ON	119.39	203	OT
	523102	VNT DR L MD 4/7 SYS2	ON	118.25	202	OT
	523103	VNT DR R MD 4/7 SYS1	ON	119.39	203	OT
	523104	VNT DR R MD 4/7 SYS2	ON	118.25	202	OT
	523201	VNT DR L MID 6 SYS 1	ON	120.38	201	OT
	523202	VNT DR L MID 6 SYS 2	ON	119.39	203	OT
	523203	VNT DR R MID 6 SYS 1	ON	120.38	201	OT
	523204	VNT DR R MID 6 SYS 2	ON	118.25	202	OT
	523301	VNT DR L AF 8/9 SYS1	ON	118.25	202	OT

Figure 6.3-1. - Continued

	523302	VNT DR L AF 8/9 SYS2	ON	120.38	201	OT
	523303	VNT DR R AF 8/9 SYS1	ON	119.39	203	OT
	523304	VNT DR R AF 8/9 SYS2	ON	118.25	202	OT
-- TOTAL SOURCE POWER IS NOW 27.73 KW --						
054:30:49.0	522801	VNT DR L FD 1/2 SYS1	OFF	.00	203	OT
	522802	VNT DR L FD 1/2 SYS2	OFF	.00	202	OT
	522803	VNT DR R FD 1/2 SYS1	OFF	.00	201	OT
	522804	VNT DR R FD 1/2 SYS2	OFF	.00	202	OT
	522901	VNT DR L MID 3 SYS 1	OFF	.00	201	OT
	522902	VNT DR L MID 3 SYS 2	OFF	.00	202	OT
	522903	VNT DR R MID 3 SYS 1	OFF	.00	201	OT
	522904	VNT DR R MID 3 SYS 2	OFF	.00	203	OT
	523001	VNT DR L MID 5 SYS 1	OFF	.00	201	OT
	523002	VNT DR L MID 5 SYS 2	OFF	.00	202	OT
	523003	VNT DR R MID 5 SYS 1	OFF	.00	201	OT
	523004	VNT DR R MID 5 SYS 2	OFF	.00	203	OT
	523101	VNT DR L MD 4/7 SYS1	OFF	.00	203	OT
	523102	VNT DR L MD 4/7 SYS2	OFF	.00	202	OT
	523103	VNT DR R MD 4/7 SYS1	OFF	.00	203	OT
	523104	VNT DR R MD 4/7 SYS2	OFF	.00	202	OT
	523201	VNT DR L MID 6 SYS 1	OFF	.00	201	OT
	523202	VNT DR L MID 6 SYS 2	OFF	.00	203	OT
	523203	VNT DR R MID 6 SYS 1	OFF	.00	201	OT
	523204	VNT DR R MID 6 SYS 2	OFF	.00	202	OT
	523301	VNT DR L AF 8/9 SYS1	OFF	.00	202	OT
	523302	VNT DR L AF 8/9 SYS2	OFF	.00	201	OT
	523303	VNT DR R AF 8/9 SYS1	OFF	.00	203	OT
	523304	VNT DR R AF 8/9 SYS2	OFF	.00	202	OT
-- TOTAL SOURCE POWER IS NOW 24.57 KW --						
054:31:44.0	050910	WDBND RCOR (MARS)	OFF	.00	12	AC
	053001	PAO CAMERA-LH WIND	OFF	.00	16	AC
	053002	PAO CAMERA-CREW	OFF	.00	17	AC
	062401	LOAD CNTL ASSY FWD1	CHANGED TO	21.94	32	W1
	062402	LOAD CNTL ASSY FWD2	CHANGED TO	26.61	33	W2
	062501	LOAD CNTL ASSY AFT1	CHANGED TO	73.20	84	F4
	062502	LOAD CNTL ASSY AFT2	CHANGED TO	59.24	95	F5
	062503	LOAD CNTL ASSY AFT3	CHANGED TO	69.82	86	F6
	062601	PCA FWD =1	CHANGED TO	104.47	22	W1
	062602	PCA FWD =2	CHANGED TO	51.97	23	W2
	062603	PCA FWD =3	CHANGED TO	75.75	24	W3
	062701	PCA MID =1	CHANGED TO	39.41	47	FM
	062702	PCA MID =2	CHANGED TO	50.40	48	FM
	062703	PCA MID =3	CHANGED TO	28.15	49	FM
	062801	PCA AFT =1	CHANGED TO	23.56	72	F4
	062802	PCA AFT =2	CHANGED TO	22.51	73	F5
	062803	PCA AFT =3	CHANGED TO	24.03	74	F6
	062804	PCA AFT =4	CHANGED TO	39.50	60	F4
	062805	PCA AFT =5	CHANGED TO	47.58	61	F5
	062806	PCA AFT =6	CHANGED TO	36.55	62	F6
	200802	LH2 I3 FLD VL OP SOL	OFF	.00	84	OT
	200810	LH2 HI PT RLD VALVE	OFF	.00	84	OT
	200900	LH2 TOP VLV OP SOL	OFF	.00	84	OT
	201801	LO2 MANF REPRS VL 1	OFF	.00	86	OT

Figure 6.3-1. - Continued

201802	LO2 MANF REPRS VL 2	OFF	.00	86	OT
201901	LH2 MANF REPRS VL 1	OFF	.00	85	OT
201902	LH2 MANF REPRS VL 2	OFF	.00	85	OT
202002	ENG 1 HE INT OHT VLV	OFF	.00	84	OT
202003	ENG 2 HE INT IN VLV	OFF	.00	45	OT
202006	ENG 3 HE INT OUT VLV	OFF	.00	86	OT
202103	ENG 2 HE SPY ISO VLA	OFF	.00	85	OT
202104	ENG 2 HE SPY ISO VLB	OFF	.00	68	OT
202201	PNEU HE SPY ISO VL 1	OFF	.00	84	OT
202202	PNEU HE SPY ISO VL 2	OFF	.00	85	OT
203600	ENG 2 PNEU YOVER VLV	OFF	.00	86	OT
203701	ENG 1 FASCOS SYS A	OFF	.00	63	OT
203702	ENG 1 FASCOS SYS B	OFF	.00	64	OT
203703	ENG 1 FASCOS SYS C	OFF	.00	65	OT
203704	ENG 2 FASCOS SYS A	OFF	.00	63	OT
203705	ENG 2 FASCOS SYS B	OFF	.00	64	OT
203706	ENG 2 FASCOS SYS C	OFF	.00	65	OT
203707	ENG 3 FASCOS SYS A	OFF	.00	63	OT
203708	ENG 3 FASCOS SYS B	OFF	.00	64	OT
203709	ENG 3 FASCOS SYS C	OFF	.00	65	OT
403701	FES CONTROLLER PRI A	OFF	.00	86	OT
520601	BODYFLAP ACT ISO V 1	OFF	.00	66	OT
520602	BODYFLAP ACT ISO V 2	OFF	.00	66	OT
520603	BODYFLAP ACT ISO V 3	OFF	.00	67	OT

-- TOTAL SOURCE POWER IS NOW 23.75 KW --

054:32:44.0

500601	MN PMP =1 DEPRES VLV	ON	22.90	66	OT
500602	MN PMP =2 DEPRES VLV	ON	22.89	67	OT
500603	MN PMP =3 DEPRES VLV	ON	22.89	68	OT

-- TOTAL SOURCE POWER IS NOW 23.83 KW --

054:33:14.0

500601	MN PMP =1 DEPRES VLV	OFF	.00	66	OT
500602	MN PMP =2 DEPRES VLV	OFF	.00	67	OT
500603	MN PMP =3 DEPRES VLV	OFF	.00	68	OT

-- TOTAL SOURCE POWER IS NOW 23.75 KW --

054:33:44.0

033103	PANEL LIGHTS - RIGHT	OFF	.00	215	AC
320201	APU 1 FU ISO VLV 1	OFF	.00	63	OT
320202	APU 1 FU ISO VLV 2	OFF	.00	64	OT
320203	APU 2 FU ISO VLV 1	OFF	.00	64	OT
320204	APU 2 FU ISO VLV 2	OFF	.00	65	OT
320205	APU 3 FU ISO VLV 1	OFF	.00	65	OT
320206	APU 3 FU ISO VLV 2	OFF	.00	63	OT
320301	APU1 CNTLR-OPERATE	OFF	.00	66	F4
320302	APU2 CNTLR-OPERATE	OFF	.00	67	F5
320303	APU3 CNTLR-OPERATE	OFF	.00	68	F6
320401	APU 1 SHUTOFF VLV	OFF	.00	66	OT
320402	APU 2 SHUTOFF VLV	OFF	.00	67	OT
320403	APU 3 SHUTOFF VLV	OFF	.00	68	OT
320501	APU 1 MODULATING VLV	OFF	.00	66	OT
320502	APU 2 MODULATING VLV	OFF	.00	67	OT
320503	APU 3 MODULATING VLV	OFF	.00	68	OT
501801	RUD/SPDBK SW VL ACT 1	OFF	.00	213	OT
501802	RUD/SPDBK SW VL PS2	OFF	.00	216	OT

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Figure 6.3-1. - Continued

	501901	ME 1 PITCH SW V ACTV	OFF	.00	216	OT
	501902	ME 1 YAW SW ACTV	OFF	.00	216	OT
	501903	ME 2 PITCH SW V ACTV	OFF	.00	216	OT
	501904	ME 2 YAW SW V ACTV	OFF	.00	216	OT
	501905	ME 3 PITCH SW V ACTV	OFF	.00	216	OT
	501906	ME 3 YAW SW V ACTV	OFF	.00	216	OT
	502001	ELV ACT SW V ACT-LO	OFF	.00	213	OT
	502002	ELV ACT SW V PS2-LO	OFF	.00	216	OT
	502003	ELV ACT SW V ACT-LI	OFF	.00	213	OT
	502004	ELV ACT SW V PS2-LI	OFF	.00	216	OT
	502005	ELV ACT SW V ACT-RI	OFF	.00	213	OT
	502006	ELV ACT SW V PS2-RI	OFF	.00	216	OT
	502007	ELV ACT SW V ACT-RO	OFF	.00	213	OT
	502008	ELV ACT SW V PS2-RO	OFF	.00	216	OT
	503401	H2O BR1 APU H2O CT A	OFF	.00	65	OT
	503403	H2O BR2 APU H2O CT A	OFF	.00	63	OT
	503405	H2O BR3 APU H2O CT A	OFF	.00	64	OT
	505401	WSB VENT NOZZ HTR 1A	OFF	.00	65	OT
	505403	WSB VENT NOZZ HTR 2A	OFF	.00	63	OT
	505405	WSB VENT NOZZ HTR 3A	OFF	.00	64	OT
-- TOTAL SOURCE POWER IS NOW 22.93 KW --						
054:34:14.0	500400	LG RETRACT CIRC VLV	ON	15.71	28	OT
	505101	CIRC MOTOR PUMP =1	ON	1944.00	60	OT
	505102	CIRC MOTOR PUMP =2	ON	1944.00	61	OT
	505103	CIRC MOTOR PUMP =3	ON	1944.00	62	OT
-- TOTAL SOURCE POWER IS NOW 29.22 KW --						
054:36:44.0	010801	ATVC =1 PWR SUP-OPER	OFF	.00	66	F4
	010802	ATVC =2 PWR SUP-OPER	OFF	.00	67	F5
	010803	ATVC =3 PWR SUP-OPER	OFF	.00	68	F6
	010804	ATVC =4 PWR SUP-OPER	OFF	.00	80	F6
	010811	ATVC =1-ISO VLV DRVR	OFF	.00	65	F4
	010812	ATVC =2-ISO VLV DRVR	OFF	.00	63	F5
	010813	ATVC =3-ISO VLV DRVR	OFF	.00	64	F6
	010814	ATVC =4-ISO VLV DRVR	OFF	.00	76	F6
	010821	ATVC =1 ACTS-OPER	OFF	.00	66	OT
	010822	ATVC =2 ACTS-OPER	OFF	.00	67	OT
	010823	ATVC =3 ACTS-OPER	OFF	.00	68	OT
	010824	ATVC =4 ACTS-OPER	OFF	.00	80	OT
-- TOTAL SOURCE POWER IS NOW 29.03 KW --						
054:38:14.0	010101	IMU =1 OPERATE	OFF	.00	28	WC
	010102	IMU =2 OPERATE	OFF	.00	29	WC
	010103	IMU =3 OPERATE	OFF	.00	30	WC
	010401	ADTA =1	OFF	.00	16	A1
	010402	ADTA =2	OFF	.00	17	A2
	010403	ADTA =3	OFF	.00	18	A1
	010404	ADTA =4	OFF	.00	18	A2
	011101	RJDF =1A PRI RCS	OFF	.00	23	W1
	011102	RJDF =1B PRI RCS	OFF	.00	22	W1
	011103	RJDF =2A PRI RCS	OFF	.00	24	W2
	011104	RJDF =2B PRI/VN-RCS	OFF	.00	24	W2
	011201	RJDA =1A PRI RCS	OFF	.00	80	F4

Figure 6.3-1. - Continued

011202	RJDA =1B PRI/VN RCS	OFF	.00	78	F4
011203	RJDA =2A PRI RCS	OFF	.00	80	F6
011204	RJDA =2B PRI/VN RCS	OFF	.00	79	F6
011401	ACCEL ASSY =1 - OPER	OFF	.00	16	A1
011402	ACCEL ASSY =2 - OPER	OFF	.00	17	A2
011403	ACCEL ASSY =3 - OPER	OFF	.00	30	A2
011404	ACCEL ASSY =4 - OPER	OFF	.00	29	A1
011601	THC-LH	OFF	.00	19	AC
011701	RHC-LH	OFF	.00	19	AC
011702	RHC-RH	OFF	.00	20	AC
011801	RPTA-LH	OFF	.00	19	AC
011802	RPTA-RH	OFF	.00	20	AC
011901	SBTC-LH	OFF	.00	19	AC
011902	SBTC-RH	OFF	.00	20	AC
021901	MSBLS DCDR ASSY=1	OFF	.00	16	A1
021902	MSBLS DCDR ASSY=2	OFF	.00	17	A2
021903	MSBLS DCDR ASSY=3	OFF	.00	18	A2
022001	MSBLS RF ASSY=1	OFF	.00	16	A1
022002	MSBLS RF ASSY=2	OFF	.00	17	A2
022003	MSBLS RF ASSY=3	OFF	.00	18	A2
022101	RADAR ALTIMETER =1	OFF	.00	16	W1
022102	RADAR ALTIMETER =2	OFF	.00	17	W2
024801	AUDIO INTF UNIT-PLT	OFF	.00	42	AC
024802	AUDIO INTF UNIT-CMDR	OFF	.00	41	AC
030102	ADI =2 FWD PH	OFF	.00	20	AC
030201	HSI =1	OFF	.00	16	AC
030301	AMI =1	OFF	.00	16	AC
030401	ALPHA MAGN EL UNIT 1	OFF	.00	16	HX
030501	AVV1 =1	OFF	.00	16	AC
030601	ALT VER VEL EL UN =1	OFF	.00	16	HX
031300	SPI	OFF	.00	16	AC
032202	DDU =2 FWD PH	OFF	.00	20	HX
053700	ACIP PACKAGE	OFF	.00	49	OT
053800	ACIP PCM MASTER	OFF	.00	49	OT
053900	ACIP PCM SLAVE	OFF	.00	49	OT
054000	ACIP MINI DHE	OFF	.00	49	OT
054010	INTF CNTL MOD-ACI*	OFF	.00	49	AC
215101	GSE SR PN HT A-43-LP	OFF	.00	72	OT
215102	ENG SR PN HT A-37-LP	OFF	.00	72	OT
215103	OME COVER HT A-53-LP	OFF	.00	72	OT
215104	Y-WB OTBD HT A-27-LP	OFF	.00	72	OT
215105	Y-WB INBD HT A-33-LP	OFF	.00	72	OT
215107	CT LN WB HT A1-21-LP	OFF	.00	72	OT
215108	CT LN WB HT A2-21-LP	OFF	.00	72	OT
215109	CT LN WB HT A3-21-LP	OFF	.00	72	OT
215111	CT LN WB HT A4-21-LP	OFF	.00	72	OT
215112	RCS HSNG HT A1-41-LP	OFF	.00	72	OT
215113	RCS HSNG HT A2-41-LP	OFF	.00	72	OT
215301	GSE SR PN HT A-44-RP	OFF	.00	73	OT
215302	ENG SR PN HT A-38-RP	OFF	.00	73	OT
215303	OME COVER HT A-54-RP	OFF	.00	73	OT
215304	Y-WB OTBD HT A-28-RP	OFF	.00	73	OT
215305	Y-WB INBD HT A-34-RP	OFF	.00	73	OT
215307	CT LN WB HT A1-22-RP	OFF	.00	73	OT
215308	CT LN WB HT A2-22-RP	OFF	.00	73	OT
215309	CT LN WB HT A3-22-RP	OFF	.00	73	OT
215311	CT LN WB HT A4-22-RP	OFF	.00	73	OT

Figure 6.3-1. - Continued

215312	RCS	HSNG	HT	A1-42-RP	OFF	.00	73	OT
215313	RCS	HSNG	HT	A2-42-RP	OFF	.00	73	OT
217001	XFD	OX/FU	FLXL	HTA-R	OFF	.00	72	OT
217023	XFD	OX/FU	FLXL	HTA-R	OFF	.00	72	OT
217101	XFD	OX/FU	LNE	HT-A-L	OFF	.00	72	OT
217102	XFD	OX/FU	LNE	HT-A-R	OFF	.00	72	OT
217105	XFD	OX/FU	LNE	HT-A-C	OFF	.00	72	OT
217201	FU	HIPT	BLDLN	HT-A-A	OFF	.00	72	OT
217203	FU	HIPT	BLDLN	HT-A-M	OFF	.00	72	OT
217301	OX	HIPT	BLDLN	HT-A-A	OFF	.00	72	OT
217303	OX	HIPT	BLDLN	HT-A-M	OFF	.00	72	OT
217401	LOPT	OXFU	JPLN	HTA-L	OFF	.00	72	OT
217403	LOPT	OXFU	JPLN	HTA-R	OFF	.00	72	OT
225101	FWD	RCS	HT-ENG	F1F-X	OFF	.00	7	OT
225102	FWD	RCS	HT-ENG	F1L+Y	OFF	.00	7	OT
225103	FWD	RCS	HT-ENG	F1U+Z	OFF	.00	7	OT
225104	FWD	RCS	HT-ENG	F1D-Z	OFF	.00	7	OT
225105	FWD	RCS	HT-ENG	F2F-X	OFF	.00	8	OT
225106	FWD	RCS	HT-ENG	F2R-Y	OFF	.00	8	OT
225107	FWD	RCS	HT-ENG	F2U+Z	OFF	.00	8	OT
225108	FWD	RCS	HT-ENG	F2D-Z	OFF	.00	8	OT
225109	FWD	RCS	HT-ENG	F3F-X	OFF	.00	8	OT
225111	FWD	RCS	HT-ENG	F3L+Y	OFF	.00	8	OT
225112	FWD	RCS	HT-ENG	F3U+Z	OFF	.00	8	OT
225113	FWD	RCS	HT-ENG	F3D-Z	OFF	.00	8	OT
225114	FWD	RCS	HT-ENG	F4R-Y	OFF	.00	9	OT
225115	FWD	RCS	HT-ENG	F4D-Z	OFF	.00	9	OT
225201	AFT	RCS	HT-ENG	R1P-Y	OFF	.00	85	OT
225202	AFT	RCS	HT-ENG	R2R-Y	OFF	.00	84	OT
225203	AFT	RCS	HT-ENG	R3R-Y	OFF	.00	86	OT
225204	AFT	RCS	HT-ENG	R4R-Y	OFF	.00	86	OT
225205	AFT	RCS	HT-ENG	R2D-Z	OFF	.00	84	OT
225206	AFT	RCS	HT-ENG	R3D-Z	OFF	.00	86	OT
225207	AFT	RCS	HT-ENG	R4D-Z	OFF	.00	86	OT
225208	AFT	RCS	HT-ENG	R1U+Z	OFF	.00	85	OT
225209	AFT	RCS	HT-ENG	R2U+Z	OFF	.00	84	OT
225211	AFT	RCS	HT-ENG	R4U+Z	OFF	.00	86	OT
225212	AFT	RCS	HT-ENG	R1A+X	OFF	.00	85	OT
225213	AFT	RCS	HT-ENG	R3A+X	OFF	.00	86	OT
225301	AFT	RCS	HT-ENG	L1L+Y	OFF	.00	85	OT
225302	AFT	RCS	HT-ENG	L2L+Y	OFF	.00	84	OT
225303	AFT	RCS	HT-ENG	L3L+Y	OFF	.00	86	OT
225304	AFT	RCS	HT-ENG	L4L+Y	OFF	.00	86	OT
225305	AFT	RCS	HT-ENG	L2D-Z	OFF	.00	84	OT
225306	AFT	RCS	HT-ENG	L3D-Z	OFF	.00	86	OT
225307	AFT	RCS	HT-ENG	L4D-Z	OFF	.00	86	OT
225308	AFT	RCS	HT-ENG	L1U+Z	OFF	.00	85	OT
225309	AFT	RCS	HT-ENG	L2U+Z	OFF	.00	84	OT
225311	AFT	RCS	HT-ENG	L4U+Z	OFF	.00	86	OT
225312	AFT	RCS	HT-ENG	L1A+X	OFF	.00	85	OT
225313	AFT	RCS	HT-ENG	L3A+X	OFF	.00	86	OT
225401	FWD	VRN	HT-ENG	F5R	OFF	.00	9	OT
225402	FWD	VRN	HT-ENG	F5L	OFF	.00	9	OT
225501	AFT	VRN	HT-ENG	R5D-Z	OFF	.00	86	OT
225502	AFT	VRN	HT-ENG	R5R-Y	OFF	.00	86	OT
225503	AFT	VRN	HT-ENG	L5D-Z	OFF	.00	86	OT
225504	AFT	VRN	HT-ENG	L5L+Y	OFF	.00	86	OT

Figure 6.3-1. - Continued

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325301	H2O VENT LN HTR A	OFF	.00	47	OT
325401	FCP1 H2O RLF VL HT A	OFF	.00	47	OT
325403	FCP2 H2O RLF VL HT A	OFF	.00	47	OT
325405	FCP3 H2O RLF VL HT A	OFF	.00	47	OT
325601	H2O NOZ BARREL HTR A	OFF	.00	47	OT
325201	FUEL FEEDLINE HTR 1A	OFF	.00	84	OT
325203	FUEL FEEDLINE HTR 2A	OFF	.00	85	OT
325205	FUEL FEEDLINE HTR 3A	OFF	.00	86	OT
325301	FUEL SERVLIN HTR 1A	OFF	.00	84	OT
325303	FUEL SERVLIN HTR 2A	OFF	.00	85	OT
325305	FUEL SERVLIN HTR 3A	OFF	.00	86	OT
325401	FUEL DRN LINE HTR 1A	OFF	.00	84	OT
325403	FUEL DRN LINE HTR 2A	OFF	.00	85	OT
325405	FUEL DRN LINE HTR 3A	OFF	.00	86	OT
325801	APU 1 PRI 420 HTR 1A	OFF	.00	75	OT
325803	APU 2 PRI 420 HTR 1A	OFF	.00	76	OT
325805	APU 3 PRI 420 HTR 1A	OFF	.00	77	OT
325901	APU 1 SEC 420 HTR 2A	OFF	.00	75	OT
325903	APU 2 SEC 420 HTR 2A	OFF	.00	76	OT
325905	APU 3 SEC 420 HTR 2A	OFF	.00	77	OT
326301	GG H2O TK LN HT 503A	OFF	.00	75	OT
326303	GG H2O TK LN HT 503A	OFF	.00	77	OT
408201	SEC FWTR LN HTA-TS11	OFF	.00	86	OT
408203	SEC FWTR LN HTA-TS12	OFF	.00	86	OT
408205	SEC FWTR LN HTA-TS13	OFF	.00	49	OT
408207	SEC FWTR LN HTA-TS3	OFF	.00	86	OT
409001	TOP'G DUCT HTR1 SEC1	OFF	.00	47	OT
409101	TOP'G DUCT HTR1 SEC2	OFF	.00	47	OT
409201	TOP'G DUCT HTR1 SEC3	OFF	.00	84	OT
409301	TOP'G DUCT HTR1 SEC4	OFF	.00	84	OT
409401	SONIC LFT NOZ HTR 1A	OFF	.00	84	OT
409501	SONIC RHT NOZ HTR 2A	OFF	.00	85	OT
522600	NOSE WHEEL STEER UNT	OFF	.00	16	OT
525101	LEFT ADP HT-MAST	OFF	.00	28	OT
525102	LEFT ADP HT-TTEMP	OFF	.00	28	OT
525103	LEFT ADP HT-PROBE	OFF	.00	28	OT
525104	RIGHT ADP HT-MAST	OFF	.00	29	OT
525105	RIGHT ADP HT-TTEMP	OFF	.00	29	OT
525106	RIGHT ADP HT-PROBE	OFF	.00	29	OT

-- TOTAL SOURCE POWER IS NOW 24.19 KW --

054:43:44.0	405101	NH3 ISO VLV-SYS A	OFF	.00	89	OT
	405102	NH3 ISO VLV-SYS B	OFF	.00	88	OT
	405201	NH3 CNTL VLV=1-SYS A	OFF	.00	84	OT
	405203	NH3 CNTL VLV=1-SYS B	OFF	.00	86	OT

-- TOTAL SOURCE POWER IS NOW 24.15 KW --

054:44:44.0	010302	STAR TRACKER -Y AXIS	OFF	.00	17	OT
	010401	ASA1 PWR SUP LOG-OPR	OFF	.00	66	F4
	010402	ASA2 PWR SUP LOG-OPR	OFF	.00	67	F5
	010403	ASA3 PWR SUP LOG-OPR	OFF	.00	68	F6
	010404	ASA4 PWR SUP LOG-OPR	OFF	.00	68	F6
	011001	ASA =1 IVD/RF-OPER	OFF	.00	68	F4
	011002	ASA =2 IVD/RF-OPER	OFF	.00	66	F5
	011003	ASA =3 IVD/RF-OPER	OFF	.00	67	F6

Figure 6.3-1. - Continued

011004	ASA =4 IVD-OPER	OFF	.00	76	F6
011011	ASA 1 ACTUATORS-OPER	OFF	.00	66	OT
011012	ASA 2 ACTUATORS-OPER	OFF	.00	67	OT
011013	ASA 3 ACTUATORS-OPER	OFF	.00	68	OT
011014	ASA 4 ACTUATORS-OPER	OFF	.00	80	OT
011301	RGA =1 OPR	OFF	.00	78	FA
011302	RGA =2 OPR	OFF	.00	64	FA
011303	RGA =3 OPR	OFF	.00	49	FA
011304	RGA =4 OPR	OFF	.00	46	FA
020802	NTWK SIG PROCESSOR 2	OFF	.00	34	W3
021302	S-BND XPNDR=2-DIRECT	OFF	.00	34	W3
021401	S-BND PWA AMP 1-SBY	OFF	.00	23	W3
021402	S-BND PWA AMP 2-OPR	OFF	.00	24	W3
021501	S-BD PREAMP 1-SBY	OFF	.00	33	W3
021502	S-BD PREAMP 2-OPR	OFF	.00	34	W3
021600	S-BND ANT SW ASY-BES	OFF	.00	33	A3
021701	TACAN =1 SEARCH	OFF	.00	213	A1
021702	TACAN =2 SEARCH	OFF	.00	216	A2
021703	TACAN =3 SEARCH	OFF	.00	219	A3
022201	UHF XVR XMT/REC	OFF	.00	18	AC
024101	AUDIO CENTER 1	OFF	.00	42	W1
024201	AUDIO TERM UN-PLT RT	OFF	.00	42	AC
024202	AUDIO TERM UN-CDR LT	OFF	.00	41	AC
024203	AUDIO TERM UNIT-HSS	OFF	.00	16	AC
024204	AUDIO TERM UNIT-PS	OFF	.00	15	AC
024910	MULTIPLE HOSET ADPTR	OFF	.00	41	AC
030101	ADI =1 FWD LH	OFF	.00	19	AC
030202	HST =2	OFF	.00	17	AC
030302	AMI =2	OFF	.00	17	AC
030402	ALPHA MACH EL UNIT 2	OFF	.00	17	HX
030502	AVVI =2	OFF	.00	17	AC
030602	ALT VER VEL EL UN =2	OFF	.00	17	HX
030705	TAPE MTR M1(HYD PRI)	OFF	.00	17	AC
030706	TAPE MTR M2(HYD QTY)	OFF	.00	17	AC
030707	TAPE MTR M3(APU)	OFF	.00	17	AC
030708	TAPE MTR M4(APU OIL)	OFF	.00	17	AC
031400	OMS/RCS PROP QTY IND	OFF	.00	18	AC
031501	C+W PWR SUP A-SBY	OFF	.00	41	A3
031502	C+W PWR SUP B-SBY	OFF	.00	42	A3
031701	MISSION TIMER =1 FWD	OFF	.00	16	AC
031702	MISSION TIMER =2 AFT	OFF	.00	17	AC
031801	EVENT TIMER =1 FWD	OFF	.00	17	AC
031802	EVENT TIMER =2 AFT	OFF	.00	16	AC
032201	DDU =1 FWD LH	OFF	.00	19	HX
032701	CRT DU =1 - LF	OFF	.00	22	HX
032702	CRT DU =2 - RF	OFF	.00	23	HX
032703	CRT DU =3 - CF	OFF	.00	24	HX
032801	DEU =1	OFF	.00	22	HX
032802	DEU =2	OFF	.00	23	HX
032803	DEU =3	OFF	.00	24	HX
033101	PANEL LTS - LEFT/CTR	OFF	.00	213	AC
033102	PANEL LTS - LEFT/OVHD	OFF	.00	212	AC
033107	PANEL LTS - RHT/OVHD	OFF	.00	214	AC
033201	INSTR LTS - LEFT/CTR	OFF	.00	218	AC
033202	INSTR LTS - OVERHEAD	OFF	.00	215	AC
033203	INSTR LTS - RIGHT	OFF	.00	211	AC
033301	NUMERIC LIGHTS-FWD	OFF	.00	212	AC

Figure 6.3-1. - Continued

034202	GLARSHLD FLDLT-LEFT	OFF	.00	41	AC
034203	GLARSHLD FLDLT-RGHT	OFF	.00	42	AC
034205	RHT OVERHEAD FLDLT A	OFF	.00	18	AC
034500	C+N ANNUN-ASSY-OPR	OFF	.00	41	AC
037200	CICU - OPER	OFF	.00	43	A1
037301	ACA =1	OFF	.00	16	AC
037302	ACA =2/3	OFF	.00	17	AC
037303	ACA =4/5	OFF	.00	18	AC
037401	ANNUN 1	OFF	.00	16	AC
037402	ANNUN 2/3	OFF	.00	17	AC
037403	ANNUN 4/5	OFF	.00	18	AC
040301	PCM MASTER UNIT =1	OFF	.00	30	W1
040401	OPS-1 RECORDER-REPLY	OFF	.00	28	W2
040402	OPS-2 RECORDER-REPLY	OFF	.00	29	W2
040403	PAYLD RECORDER-REPLY	OFF	.00	30	W1
040501	DED SIG CND OF1- FWD	OFF	.00	19	W1
040502	DED SIG CND OF2- FWD	OFF	.00	20	W2
040503	DED SIG CND OF3- FWD	OFF	.00	20	W3
040601	DED SIG CND OA1- AFT	OFF	.00	66	F4
040602	DED SIG CND OA2- AFT	OFF	.00	67	F5
040603	DED SIG CND OA3- AFT	OFF	.00	68	F6
040900	MTU - OPER	OFF	.00	43	W4
041201	DSC OL1 OMS/RCS	OFF	.00	78	OT
041202	DSC OL2 OMS/RCS	OFF	.00	80	OT
041203	DSC OR1 OMS/RCS	OFF	.00	78	OT
041204	DSC OR2 OMS/RCS	OFF	.00	79	OT
041301	DSC OM1 MID FUS	OFF	.00	19	OT
041302	DSC OM2 MID FUS	OFF	.00	19	OT
041400	DSC OF4 FWD RCS	OFF	.00	19	OT
041601	WDBND S/C =1 (BAY4)	OFF	.00	63	OT
041602	WDBND S/C =2 (BAY4)	OFF	.00	63	OT
041603	WDBND S/C =3 (BAY4)	OFF	.00	63	OT
041604	WDBND S/C =4 (BAY4)	OFF	.00	63	OT
041701	WDBND S/C =1 (BAY5)	OFF	.00	64	OT
041702	WDBND S/C =2 (BAY5)	OFF	.00	64	OT
050100	PWR DIST ASSY FWD	OFF	.00	12	DW
050201	PWR DIST ASSY =1 MID	OFF	.00	44	D1
050202	PWR DIST ASSY =2 MID	OFF	.00	44	D2
050203	PWR DIST ASSY =3 MID	OFF	.00	44	D3
050301	PCM MASTER UNIT =1	OFF	.00	24	DW
050401	DSC FWD =1-SDF1	OFF	.00	12	DW
050402	DSC FWD =2-SDF2	OFF	.00	12	DW
050403	DSC FWD =3-SDF3	OFF	.00	12	DW
050501	DSC UNIT #1 - SDC1	OFF	.00	44	D1
050502	DSC UNIT #2 - SDC2	OFF	.00	44	D1
050503	DSC UNIT #3 - SDC3	OFF	.00	44	D1
050504	DSC UNIT #4 - SDC4	OFF	.00	44	D1
050505	DSC UNIT #5 - SDC5	OFF	.00	44	D1
050506	DSC UNIT #1 - SDR1	OFF	.00	44	D2
050507	DSC UNIT #2 - SDR2	OFF	.00	44	D2
050508	DSC UNIT #3 - SDR3	OFF	.00	44	D2
050509	DSC UNIT #4 - SDR4	OFF	.00	44	D2
050601	DSC UNIT #1 - SDC1	OFF	.00	44	D3
050602	DSC UNIT #2 - SDC2	OFF	.00	44	D3
050603	DSC UNIT #3 - SDC3	OFF	.00	44	D3
050604	DSC UNIT #4 - SDC4	OFF	.00	44	D3
050605	DSC UNIT #5 - SDC5	OFF	.00	44	D3

Figure 6.3-1. - Continued

050701	WB FDM 1A (FME1)-FWD	OFF	.00	12	DW
050702	WB FDM 1B (FME1)-FWD	OFF	.00	12	DW
050703	WB FDM 2A (FME2)-FWD	OFF	.00	12	DW
050704	WB FDM 2B (FME2)-FWD	OFF	.00	12	DW
050705	WB FDM 3A (FME3)-FWD	OFF	.00	12	DW
050706	WB FDM 3B (FME3)-FWD	OFF	.00	12	DW
050801	WDBND FDM UN1-MID L1	OFF	.00	47	D1
050802	WDBND FDM UN1-MID L1	OFF	.00	48	D1
050803	WDBND FDM UN2-MID L1	OFF	.00	47	D1
050804	WDBND FDM UN2-MID L1	OFF	.00	48	D1
050805	WDBND FDM UN1-MID R2	OFF	.00	47	D2
050806	WDBND FDM UN1-MID R2	OFF	.00	48	D2
050807	WDBND FDM UN2-MID R2	OFF	.00	47	D2
050808	WDBND FDM UN2-MID R2	OFF	.00	48	D2
050812	WDBND FDM UN1-MID L3	OFF	.00	47	D3
050820	FREON FLOWTR-MID L13	OFF	.00	47	D3
050831	LOAD SEN ACCEL-1 FWD	OFF	.00	12	DW
050832	LOAD SEN ACCEL-2 FWD	OFF	.00	12	DW
050833	LOAD SEN ACCEL-MR 2	OFF	.00	47	D2
050834	LOAD SEN ACCEL-MR 3	OFF	.00	48	D2
050930	PCM PCDR-RECD-SPECIAL	OFF	.00	12	DW
051011	WBSC FWD (A131)-100%	OFF	.00	12	DW
051020	WBSC FWD (A132)-WBM	OFF	.00	12	DW
051032	WBSC FWD (A133)-WBM	OFF	.00	12	DW
051041	WBSC FWD (A134)-WBM	OFF	.00	12	DW
051111	WBSC LM1 (A135)-WBM	OFF	.00	48	D1
051112	WBSC LM1 (A135)-WBM	OFF	.00	47	D1
051121	WBSC LM1 (A136)-WBM	OFF	.00	48	D1
051122	WBSC LM1 (A136)-WBM	OFF	.00	47	D1
051131	WBSC LM1 (A137)-WBM	OFF	.00	48	D1
051132	WBSC LM1 (A137)-WBM	OFF	.00	47	D1
051141	WBSC LM1 (A138)-WBM	OFF	.00	48	D1
051142	WBSC LM1 (A138)-WBM	OFF	.00	47	D1
051211	WBSC RM2 (A139)-WBM	OFF	.00	48	D2
051212	WBSC RM2 (A139)-WBM	OFF	.00	47	D2
051221	WBSC RM2 (A140)-WBM	OFF	.00	48	D2
051222	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051231	WBSC RM2 (A141)-WBM	OFF	.00	48	D2
051232	WBSC RM2 (A141)-WBM	OFF	.00	47	D2
051241	WBSC RM2 (A142)-WBM	OFF	.00	48	D2
051242	WBSC RM2 (A142)-WBM	OFF	.00	47	D2
051322	WBSC LM3 (A144)-WBM	OFF	.00	47	D3
051332	WBSC LM3 (A145)-100%	OFF	.00	47	D3
051333	WBSC LM3 (A145)-100%	OFF	.00	48	D3
051401	DC-DC XDUCEPS-FWD	OFF	.00	47	OT
051402	DC-DC XDUCEPS-FWD	OFF	.00	12	OT
051403	DC-DC XDUCEPS-FWD	OFF	.00	47	OT
051404	DC-DC XDUCEPS-MID L1	OFF	.00	47	OT
051405	DC-DC XDUCEPS-MID L1	OFF	.00	47	OT
051406	DC-DC XDUCEPS-MID L1	OFF	.00	48	OT
051407	DC-DC XDUCEPS-MID R2	OFF	.00	47	OT
051408	DC-DC XDUCEPS-MID R2	OFF	.00	47	OT
051409	DC-DC XDUCEPS-MID R2	OFF	.00	48	OT
051411	DC-DC XDUCEPS-MID L3	OFF	.00	47	OT
051412	DC-DC XDUCEPS-MID L3	OFF	.00	47	OT
051501	SGSC FWD (A161)-100%	OFF	.00	12	DW
051502	SGSC FWD (A161)-100%	OFF	.00	12	DW

Figure 6.3-1. - Continued

051503	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051504	SGSC FWD (A161)-WBM	OFF	.00	12	DW
051611	SGSC ML1 (A162)-100%	OFF	.00	47	D1
051612	SGSC ML1 (A162)-WBM	OFF	.00	47	D1
051613	SGSC ML1 (A162)-WBM	OFF	.00	48	D1
051621	SGSC ML1 (A163)-100%	OFF	.00	47	D1
051622	SGSC ML1 (A163)-WBM	OFF	.00	40	D1
051623	SGSC ML1 (A163)-WBM	OFF	.00	47	D1
051624	SGSC ML1 (A163)-100%	OFF	.00	48	D1
051625	SGSC ML1 (A163)-100%	OFF	.00	47	D1
051631	SGSC MR2 (A164)-100%	OFF	.00	48	D2
051632	SGSC MR2 (A164)-100%	OFF	.00	48	D2
051641	SGSC MR2 (A165)-100%	OFF	.00	48	D2
051642	SGSC MR2 (A165)-100%	OFF	.00	48	D2
051651	SGSC MR2 (A169)-100%	OFF	.00	48	D2
051652	SGSC MR2 (A169)-WBM	OFF	.00	48	D2
051653	SGSC MF2 (A169)-WBM	OFF	.00	47	D2
051654	SGSC MR2 (A169)-100%	OFF	.00	48	D2
051661	SGSC ML3 (A166)-100%	OFF	.00	48	D3
051662	SGSC ML3 (A166)-WBM	OFF	.00	47	D3
051671	SGSC ML3 (A167)-100%	OFF	.00	48	D3
051672	SGSC ML3 (A167)-WBM	OFF	.00	47	D3
051673	SGSC ML3 (A167)-100%	OFF	.00	48	D3
051703	MDM DFI - FWD	OFF	.00	12	DW
051801	MDM DL1 - MID LEFT 1	OFF	.00	44	D1
051802	MDM DL2 - MID LEFT 1	OFF	.00	44	D1
051803	MDM DR1 - MID RIGHT 2	OFF	.00	44	D2
051804	MDM DR2 - MID RIGHT 2	OFF	.00	44	D2
051805	MDM DC1 - MID LEFT 3	OFF	.00	44	D3
051806	MDM DC2 - MID LEFT 3	OFF	.00	44	D3
051200	S-BAND FM XMIT DFI	OFF	.00	12	DW
052200	ARS DFI SIGNAL COND	OFF	.00	215	OT
052300	ATCS DFI SIGNAL COND	OFF	.00	217	OT
052401	DFI FREON PUMP #1	OFF	.00	201	D1
052500	3-AXIS ACCEL	OFF	.00	12	OT
060701	GRND CMDS INTRC UN A	OFF	.00	33	W3
061001	INV DIST+CTL ASY1-DC	OFF	.00	41	A1
061002	INV DIST+CTL ASY1-AC	OFF	.00	201	A1
061003	INV DIST+CTL ASY2-DC	OFF	.00	42	A2
061004	INV DIST+CTL ASY2-AC	OFF	.00	202	A2
061005	INV DIST+CTL ASY3-DC	OFF	.00	43	A3
061006	INV DIST+CTL ASY3-AC	OFF	.00	203	A3
061701	CURR SENSOR-MIDBDY=1	OFF	.00	7	OT
061702	CURR SENSOR-MIDBDY=2	OFF	.00	8	OT
061703	CURR SENSOR-MIDBDY=3	OFF	.00	9	OT
061704	CURR SENSOR-PL MN B	OFF	.00	64	OT
061705	CURR SENSOR-PL MN C	OFF	.00	65	OT
061706	CURR SENSOR-LH ADP	OFF	.00	22	OT
061707	CURR SENSOR-LH ADP	OFF	.00	23	OT
061708	CURR SENSOR-RH ADP	OFF	.00	23	OT
061709	CURR SENSOR-RH ADP	OFF	.00	23	OT
061801	H202 CRYO ASY1A-QUES	OFF	.00	7	FM
061802	H202 CRYO ASY1B-QUES	OFF	.00	9	FM
061811	H202 CRYO ASY2A-QUES	OFF	.00	8	FM
061812	H202 CRYO ASY2B-QUES	OFF	.00	9	FM
062001	PROX SNSR EL PKG =1	OFF	.00	217	A1
062002	PROX SNSR EL PKG =2	OFF	.00	214	A2

Figure 6.3-1. - Continued

062101	MTR CNTL ASSY FWD =1	OFF	.00	22	W1
062102	MTR CNTL ASSY FWD =2	OFF	.00	23	W2
062103	MTR CNTL ASSY FWD =3	OFF	.00	24	W3
062201	MTR CNTL ASSY MID =1	OFF	.00	44	FM
062202	MTR CNTL ASSY MID =2	OFF	.00	45	FM
062203	MTR CNTL ASSY MID =3	OFF	.00	46	FM
062204	MTR CNTL ASSY MID =4	OFF	.00	47	FM
062301	MTR CNTL ASSY AFT =1	OFF	.00	63	F4
062302	MTR CNTL ASSY AFT =2	OFF	.00	64	F5
062303	MTR CNTL ASSY AFT =3	OFF	.00	65	F6
062401	LOAD CNTL ASSY FWD1	OFF	.00	32	W1
062402	LOAD CNTL ASSY FWD2	OFF	.00	33	W2
062403	LOAD CNTL ASSY FWD3	OFF	.00	34	W3
062501	LOAD CNTL ASSY AFT1	OFF	.00	84	F4
062502	LOAD CNTL ASSY AFT2	OFF	.00	85	F5
062503	LOAD CNTL ASSY AFT3	OFF	.00	86	F6
062601	PCA FWD =1	OFF	.00	22	W1
062602	PCA FWD =2	OFF	.00	23	W2
062603	PCA FWD =3	OFF	.00	24	W3
062701	PCA MID =1	OFF	.00	47	FM
062702	PCA MID =2	OFF	.00	48	FM
062703	PCA MID =3	OFF	.00	49	FM
062801	PCA AFT =1	OFF	.00	72	F4
062802	PCA AFT =2	OFF	.00	73	F5
062803	PCA AFT =3	OFF	.00	74	F6
062804	PCA AFT =4	OFF	.00	60	F4
062805	PCA AFT =5	OFF	.00	61	F5
062806	PCA AFT =6	OFF	.00	62	F6
070101	GPC CPU#1-RUN	OFF	.00	31	A1
070102	GPC CPU#2-RUN	OFF	.00	31	A2
070103	GPC CPU#3-RUN	OFF	.00	31	A3
070104	GPC CPU#4-RUN	OFF	.00	31	A1
070105	GPC CPU#5-RUN	OFF	.00	31	A2
070201	GPC IOP#1-RUN	OFF	.00	31	A1
070202	GPC IOP#2-RUN	OFF	.00	31	A2
070203	GPC IOP#3-RUN	OFF	.00	31	A3
070204	GPC IOP#4-RUN	OFF	.00	31	A1
070205	GPC IOP#5-RUN	OFF	.00	31	A2
070301	MDM FF1	OFF	.00	28	W1
070302	MDM FF2	OFF	.00	29	W2
070303	MDM FF3	OFF	.00	30	W3
070304	MDM FF4	OFF	.00	29	W2
070401	MDM FA1	OFF	.00	66	F4
070402	MDM FA2	OFF	.00	67	F5
070403	MDM FA3	OFF	.00	68	F6
070404	MDM FA4	OFF	.00	68	F6
070901	MM =1 TAPE OPER	OFF	.00	22	W1
070902	MM =2 TAPE OPER	OFF	.00	19	W2
071001	MDM OFI 1	OFF	.00	19	W1
071002	MDM OFI 2	OFF	.00	19	W2
071003	MDM OFI 3	OFF	.00	21	W3
071004	MDM OFI 4 FLT-DECK	OFF	.00	21	W3
071101	MDM OAI 1	OFF	.00	66	F4
071102	MDM OAI 2	OFF	.00	67	F5
071103	MDM OAI 3	OFF	.00	68	F6
071401	MDM PL 1	OFF	.00	28	W1
071402	MDM PL 2	OFF	.00	29	W2

Figure 6.3-1. - Continued

075001	GPC CNTLR 1 PS A	OFF	.00	31	A1
075002	GPC CNTLR 1 PS B	OFF	.00	31	A1
075003	GPC CNTLR 2 PS A	OFF	.00	31	A2
075004	GPC CNTLR 2 PS B	OFF	.00	31	A2
075005	GPC CNTLR 3 PS A	OFF	.00	31	A2
075006	GPC CNTLR 3 PS B	OFF	.00	31	A2
210701	LP ACT GMBL INST/LOG	OFF	.00	72	OT
210702	LP STB GMBL INST/LOG	OFF	.00	73	OT
210703	RP ACT GMBL INST/LOG	OFF	.00	74	OT
210704	RP STB GMBL INST/LOG	OFF	.00	72	OT
211501	BIPROP VL1 LP POS ID	OFF	.00	72	OT
211502	BIPROP VL2 LP POS ID	OFF	.00	73	OT
211503	BIPROP VL1 RP POS ID	OFF	.00	72	OT
211504	BIPROP VL2 RP POS ID	OFF	.00	74	OT
212106	TK ISO/XFD VL TLKBCX	OFF	.00	72	AC
212401	QUAN GAGE TOT-LP-OPR	OFF	.00	78	OT
212402	QUAN GAGE TOT-RP-OPR	OFF	.00	80	OT
300201	FCP #1 O2 FLOWMETER	OFF	.00	47	OT
300202	FCP #2 O2 FLOWMETER	OFF	.00	48	OT
300203	FCP #3 O2 FLOWMETER	OFF	.00	49	OT
300301	FCP #1 H2 FLOWMETER	OFF	.00	47	OT
300302	FCP #2 H2 FLOWMETER	OFF	.00	48	OT
300303	FCP #3 H2 FLOWMETER	OFF	.00	49	OT
300401	FCP1 EL CTL-ORBT	OFF	.00	38	OT
300402	FCP2 EL CTL-ORBT	OFF	.00	39	OT
300403	FCP3 EL CTL-ORBT	OFF	.00	40	OT
300501	FCP1 PMP+H2O SENSOR	OFF	.00	201	OT
300502	FCP2 PMP+H2O SENSOR	OFF	.00	202	OT
300503	FCP3 PMP+H2O SENSOR	OFF	.00	203	OT
310301	O2 INK1 SIG COND QTY	OFF	.00	42	OT
310302	H2 INK1 SIG COND QTY	OFF	.00	42	OT
310303	O2 INK2 SIG COND QTY	OFF	.00	41	OT
310304	H2 INK2 SIG COND QTY	OFF	.00	41	OT
400101	CABIN FAN A	OFF	.00	203	HX
400201	CAB AIR TEMP CNT PRI	OFF	.00	214	AC
400301	CAB AIR TMP CN-EL-PR	OFF	.00	214	AC
400400	CAB AIR SIGNAL COND	OFF	.00	212	AC
400502	ARS HUMIDITY SEP B	OFF	.00	202	AC
400600	ARS HUM SEP SIG CND	OFF	.00	217	AC
400701	PPO2 CNTLR-SYS 1	OFF	.00	16	AC
400702	PPO2 CNTLR-SYS 2	OFF	.00	17	AC
400711	O2 CONTROL VLV-SYS 1	OFF	.00	16	AC
400712	O2 CONTROL VLV-SYS 2	OFF	.00	17	AC
400731	CABIN PRESS-SENSOR	OFF	.00	16	AC
400732	CAB PRES DECAY SENS	OFF	.00	17	AC
400751	O2 FLOW SENSOR-SYS 1	OFF	.00	16	AC
400752	O2 FLOW SENSOR-SYS 2	OFF	.00	17	AC
400753	N2 FLOW SENSOR-SYS 1	OFF	.00	16	AC
400754	N2 FLOW SENSOR-SYS 2	OFF	.00	17	AC
400761	PPO2 SENSOR-SYS 1	OFF	.00	16	AC
400762	PPO2 SENSOR-SYS 2	OFF	.00	17	AC
400763	PPO2 SENSOR-SYS 3	OFF	.00	17	AC
400802	AVION FAN-BAY 1 (B)	OFF	.00	202	A1
400803	AVION FAN-BAY 2 (A)	OFF	.00	202	A2
400806	AVION FAN-BAY 3 (B)	OFF	.00	201	A3
400901	AVION BAY 1 SIG COND	OFF	.00	218	AC
400902	AVION BAY 2 SIG COND	OFF	.00	212	AC

Figure 6.3-1. - Concluded

400903	AVION BAY 3 SIG COND	OFF			
401001	SMOKE DT SNO-L FLT D	OFF	.00	215	AC
401002	SMOKE DT SNO-R FLT D	OFF	.00	16	OT
401003	S D SNSR A - BAY 1	OFF	.00	16	OT
401004	S D SNSR B - BAY 1	OFF	.00	16	OT
401005	S D SNSR A - BAY 2	OFF	.00	17	OT
401006	S D SNSR B - BAY 2	OFF	.00	16	OT
401007	S D SNSR A - BAY 3	OFF	.00	18	OT
401008	S D SNSR B - BAY 3	OFF	.00	17	OT
401009	S D SNSR - CABIN	OFF	.00	16	OT
401102	IMU FAN B	OFF	.00	18	OT
401203	IMU FAN SIG COND	OFF	.00	202	WC
401303	H2O PUMP - LOOP 2	OFF	.00	218	AC
401501	H2O BYPASS CN SC-PRI	OFF	.00	203	WC
401502	H2O BYPASS CN SC-SEC	OFF	.00	217	AC
402901	FREON PMP LP 1-A ASE	OFF	.00	211	AC
403601	FREON PMP LP 2-A ASC	OFF	.00	201	FP
403602	FREON COOL LP1 INSTR	OFF	.00	203	FP
403603	FREON COOL LP2 INSTR	OFF	.00	215	OT
405001	NH3 SYSTEM CNTL A	OFF	.00	218	OT
405002	NH3 SYSTEM CNTL B	OFF	.00	27	OT
406000	VACUUM VNT NOZ HTR	OFF	.00	88	OT
500100	LG EXTEND VLV	OFF	.00	5	OT
500300	LAND GEAR DUMP VLV	OFF	.00	22	OT
500500	LG RETRACT CIRC VLV	OFF	.00	22	OT
500801	REDUND SHUTOFF VLV	OFF	.00	28	OT
500802	RESVOIR #1 VOL SNSR	OFF	.00	29	OT
500803	RESVOIR #2 VOL SNSR	OFF	.00	212	OT
500804	RESVOIR #3 VOL SNSR	OFF	.00	215	OT
503301	H2O BR1 HYD H2O CT A	OFF	.00	218	OT
503302	H2O BR2 HYD H2O CT A	OFF	.00	65	OT
503303	H2O BR3 HYD H2O CT A	OFF	.00	63	OT
503701	H2O BLR1 CNT LOGIC A	OFF	.00	64	OT
503702	H2O BLR2 CNT LOGIC A	OFF	.00	217	OT
503703	H2O BLR3 CNT LOGIC A	OFF	.00	213	OT
503801	H2O BOILR 1 CNTL A	OFF	.00	214	OT
503802	H2O BOILR 2 CNTL A	OFF	.00	65	OT
503803	H2O BOILR 3 CNTL A	OFF	.00	63	OT
505101	CIRC MOTOR PUMP #1	OFF	.00	64	OT
505102	CIRC MOTOR PUMP #2	OFF	.00	60	OT
505103	CIRC MOTOR PUMP #3	OFF	.00	61	OT
505201	BRK/SKID CNTL BOX A	OFF	.00	62	OT
505202	BRK/SKID CNTL BOX B	OFF	.00	30	A1
505301	ESCAPE SUIT VT ASY L	OFF	.00	29	A2
505302	ESCAPE SUIT VT ASY R	OFF	.00	11	AC
			.00	10	AC

-- TOTAL SOURCE POWER IS NOW

.00 KW --

Figure 6.1-1.- Vehicle configuration at initialization

LISTING OF ALL ACTIVE COMPONENTS AT TIME -000:09:59.9
--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMED LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS.

Figure 6.4-1. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	116.49			28	WC			
010102	IMU =2 OPERATE	116.49	*		29	WC			
010103	IMU =3 OPERATE	116.46	*		30	WC			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010801	ATVC =1 PWR SUP-OPER	38.90	*		66	F4			
010802	ATVC =2 PWR SUP-OPER	38.90	*		67	F5			
010803	ATVC =3 PWR SUP-OPER	38.90	*		68	F6			
010804	ATVC =4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC =1 ISO VLV DRVR	.65			65	F4			
010812	ATVC =2 ISO VLV DRVR	.66			63	F5			
010813	ATVC =3 ISO VLV DRVR	.66			64	F6			
010814	ATVC =4 ISO VLV DRVR	.66			76	F6			
010821	ATVC =1 ACTS-OPER	1.30	*		66	OT			
010822	ATVC =2 ACTS-OPER	1.30	*		67	OT			
010823	ATVC =3 ACTS-OPER	1.30	*		68	OT			
010824	ATVC =4 ACTS-OPER	1.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	.40	*		68	F4			
011002	ASA =2 IVD/BF-OPER	.40	*		66	F5			
011003	ASA =3 IVD/BF-OPER	.40	*		67	F6			
011004	ASA =4 IVD-OPER	.40	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	13.50	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	13.48	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	13.50	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	13.45	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	RGA =1 OPR	22.77	*		78	FA			
011302	RGA =2 OPR	23.13	*		64	FA			
011303	RGA =3 OPR	24.13	*		49	FA			
011304	RGA =4 OPR	23.84	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	THC-LH	2.84			19	AC			
011701	RHC-LH	4.30			19	AC			
011702	RHC-RH	4.36			20	AC			
011801	RPTA-LH	1.10			19	AC			
011802	RPTA-RH	1.11			20	AC			
011901	SBTC-LH	1.46			19	AC			

Figure 6.4-1. - Continued

011902	SBTC-RH	1.48		20	AC			
020802	NIMX SIG PROCESSOR 2	25.19		34	W3			
021101	S-BAND FM XMTR =1	62.28		33	W3			
021200	S-BAND FM SIG PRO-ORB	4.45		36	A3			
021302	S-PND XPNDR=2-DIRECT	52.44	*	34	W3			
021401	S-BND PWR AMP 1-SBY	18.52		23	W3			
021402	S-BND PWR AMP 2-OPR	382.39	*	24	W3			
021501	S-BD PREAMP 1-SBY	11.44		33	W3			
021502	S-BD PREAMP 2-OPR	16.80		34	W3			
021600	S-BND ANT SW ASY-QES	1.40	*	33	A3			
021701	TACAN =1 SEARCH	211.13	*	213	A1	160.00C		
021702	TACAN =2 SEARCH	209.15	*	216	A2		160.00C	
021703	TACAN =3 SEARCH	212.63	*	219	A3			160.00C
022101	RADAR ALTIMETER =1	21.28		16	W1			
022102	RADAR ALTIMETER =2	21.41		17	W2			
022201	UHF XCVR-XMT/REC	51.81	*	10	AC			
024101	AUDIO CENTER 1	35.45		42	W1			
024201	AUDIO TERM UN-PLT RT	3.10		41	AC			
024202	AUDIO TERM UN-CDR LT	3.11		41	AC			
024203	AUDIO TERM UNIT-MSS	3.13		10	AC			
024204	AUDIO TERM UNIT-PS	3.33		15	AC			
024910	MULTIPLE HDSET ADPTR	6.62		41	AC			
030101	ADT =1 FWD LH	15.65		19	AC			
030102	ADT =2 FWD RH	15.86		20	AC			
030201	HST =1	24.70		15	AC			
030202	HST =2	24.85		17	AC			
030301	AMI =1	6.48		16	AC			
030302	AMI =2	6.51		17	AC			
030401	ALPHA MACH EL UNIT 1	29.05		16	HX			
030402	ALPHA MACH EL UNIT 2	29.22		17	HX			
030501	AVVI =1	6.48		16	AC			
030502	AVVI =2	6.51		17	AC			
030601	ALT VER VEL EL UN =1	22.76		16	HX			
030602	ALT VER VEL EL UN =2	22.89		17	HX			
030701	TAPE MTR M1 (MPS PR)	8.33		16	AC			
030702	TAPE MTR M2 (MPS PR)	5.55		16	AC			
030703	TAPE MTR M3 (MPS PR)	11.10		16	AC			
030705	TAPE MTR M1 (HYD PR)	8.38		17	AC			
030706	TAPE MTR M2 (HYD QTY)	8.38		17	AC			
030707	TAPE MTR M3 (APU)	8.38		17	AC			
030708	TAPE MTR M4 (APU OIL)	5.58		17	AC			
031300	SPI	17.40		16	AC			
031400	OMS/RCS PROP QTY IND	4.73		18	AC			
031501	C+W PWR SUP A-STBY	19.03		41	A3			
031502	C+W PWR SUP B-STBY	12.05		42	A3			
031701	MISSION TIMER =1 FWD	3.24		16	AC			
031702	MISSION TIMER =2 AFT	3.35		17	AC			
031801	EVENT TIMER =1 FWD	2.79		17	AC			
031802	EVENT TIMER =2 AFT	2.78		16	AC			
032201	DDU =1 FWD LH	120.00		19	HX			
032202	DDU =2 FWD PH	120.00		20	HX			
032701	CRT DU =1 - LF	76.75		22	HX			
032702	CRT DU =2 - RF	76.80		23	HX			
032703	CRT DU =3 - CE	76.54		24	HX			
032801	DEU =1	202.00		22	HX			
032802	DEU =2	202.00		23	HX			
032803	DEU =3	202.00		24	HX			

Figure 6.4-1. - Continued

033101	PANEL LTS - LEFT/CTR	259.11		211	AC	195.00A		
033102	PANEL LTS - LEFT/OVMD	214.11		212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	173.86		215	AC		133.00B	
033107	PANEL LTS - RHT/OVMD	172.55		214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	76.10		218	AC			57.80B
033202	INSTR LTS - OVERHEAD	35.95		215	AC		27.50B	
033203	INSTR LTS - RIGHT	66.04		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	23.15		212	AC	17.50B		
034201	GLARSHLD FLDLT-LEFT	29.34	*	41	AC			
034202	GLARSHLD FLDLT-RGHT	29.26	*	42	AC			
034203	LRFT OVERHEAD FLDLT A	20.94		17	AC			
034204	RHT OVERHEAD FLDLT A	21.20		18	AC			
034205	CONSOLE FLDLT-CMD(L)	15.26		16	AC			
034206	CONSOLE FLDLT-PLT	15.36		17	AC			
034207	C-W ANNUN ASSY-OPR	7.11	*	41	AC			
035600	CICU - OPR	6.22	*	43	A1			
037200	ACA =1	30.53		16	AC			
037201	ACA =2/3	62.01		17	AC			
037202	ACA =4/5	51.36		16	AC			
037303	ANNUN 1	11.49		16	AC			
037401	ANNUN 2/3	21.50		17	AC			
037402	ANNUN 4/5	18.21		18	AC			
037403	PCM MASTER UNIT =1	55.00		30	W1			
040301	OPS-1 RECORDER-REPLY	46.43	*	28	W2			
040401	OPS-2 RECORDER-REPLY	46.42	*	29	W2			
040501	DED SIG CND OF1 - FWD	22.80		19	W1			
040502	DED SIG CND OF2 - FWD	32.60		20	W2			
040503	DED SIG CND OF3 - FWD	26.80		20	W3			
040601	DED SIG CND OA1 - AFT	36.20		66	F4			
040602	DED SIG CND OA2 - AFT	29.10		67	F5			
040603	DED SIG CND OA3 - AFT	29.10		68	F6			
040604	MTU - OPR	27.46		43	W4			
040900	DSC OL1 OMS/RCS	23.30		78	OT			
041201	DSC OL2 OMS/RCS	21.40		80	OT			
041202	DSC OR1 OMS/RCS	23.30		78	OT			
041203	DSC OR2 OMS/RCS	21.40		79	OT			
041204	DSC OM1 MID FUS	13.90		19	OT			
041301	DSC OM2 MID FUS	22.10		19	OT			
041302	DSC OM3 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WDRND S/C =1 (BAY4)	.33		63	OT			
041602	WDRND S/C =2 (BAY4)	.33		63	OT			
041603	WDRND S/C =3 (BAY4)	.33		63	OT			
041604	WDRND S/C =4 (BAY4)	.33		63	OT			
041701	WDRND S/C =1 (BAY5)	.33		64	OT			
041702	WDRND S/C =2 (BAY5)	.33		64	OT			
050100	PRR DIST ASSY-FWD	9.47		12	DW			
050201	PRR DIST ASSY =1 MID	8.68		44	D1			
050202	PRR DIST ASSY =2 MID	8.68		44	D2			
050203	PRR DIST ASSY =3 MID	8.68		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FWD =1-SOF1	22.20		12	DW			
050402	DSC FWD =2-SOF2	22.20		12	DW			
050403	DSC FWD =3-SOF3	22.50		12	DW			
050501	DSC UNIT #1 - SOL1	16.60		44	D1			
050502	DSC UNIT #2 - SOL2	24.70		44	D1			
050503	DSC UNIT #3 - SOL3	16.60		44	D1			
050504	DSC UNIT #4 - SOL4	24.70		44	D1			

Figure 6.4-1. - Continued

050505	DSC UNIT #5 - SOL5	6.70	44	01
050506	DSC UNIT #1 - SOL1	16.60	44	02
050507	DSC UNIT #2 - SOL2	24.70	44	02
050508	DSC UNIT #3 - SOL3	16.60	44	02
050509	DSC UNIT #4 - SOL4	46.80	44	02
050601	DSC UNIT #1 - SDC1	16.60	44	03
050602	DSC UNIT #2 - SDC2	23.90	44	03
050603	DSC UNIT #3 - SDC3	16.60	44	03
050604	DSC UNIT #4 - SDC4	17.70	44	03
050605	DSC UNIT #5 - SDC5	16.60	44	03
050701	WB FDM 1A (FME1)-FWD	23.68	12	DW
050702	WB FDM 1B (FME1)-FWD	23.68	12	DW
050703	WB FDM 2A (FME2)-FWD	23.68	12	DW
050704	WB FDM 2B (FME2)-FWD	23.68	12	DW
050705	WB FDM 3A (FME3)-FWD	23.68	12	DW
050706	WB FDM 3B (FME3)-FWD	23.68	12	DW
050801	WDBND FDM UN1-MID L1	21.71	47	01
050802	WDBND FDM UN1-MID L1	22.50	47	01
050803	WDBND FDM UN2-MID L1	21.71	47	01
050804	WDBND FDM UN2-MID L1	22.50	47	01
050805	WDBND FDM UN1-MID R2	21.71	47	02
050806	WDBND FDM UN1-MID R2	22.50	47	02
050807	WDBND FDM UN2-MID R2	21.71	47	02
050808	WDBND FDM UN2-MID R2	22.50	47	02
050811	WDBND FDM UN1-MID L3	21.71	47	03
050812	WDBND FDM UN1-MID L3	21.71	47	03
050813	WDBND FDM UN2-MID L3	43.41	47	03
050820	FRFON FLOMTR-MID LT3	1.74	47	03
050831	LOAD SEN ACCEL-1 FWD	3.31	12	DW
050832	LOAD SEN ACCEL-2 FWD	3.31	12	DW
050833	LOAD SEN ACCEL-MR 2	12.16	47	02
050834	LOAD SEN ACCEL-MR 3	9.45	48	02
050901	WDBND RCDR (ASC)-RECD	16.10	12	DW
050930	PCN RCDR-RECD-SERIAL	16.10	12	DW
051011	WBSC FWD (A131)-100%	2.65	12	DW
051012	WBSC FWD (A131)-ASCT	4.64	12	DW
051020	WBSC FWD (A132)-WBH	5.30	12	DW
051031	WBSC FWD (A133)-ASCT	7.29	12	DW
051032	WBSC FWD (A133)-WBH	9.00	12	DW
051041	WBSC FWD (A134)-WBH	2.52	48	01
051111	WBSC LM1 (A135)-WBH	3.04	47	01
051112	WBSC LM1 (A135)-WBH	3.15	48	01
051121	WBSC LM1 (A136)-WBH	3.39	47	01
051122	WBSC LM1 (A136)-WBH	4.77	48	01
051131	WBSC LM1 (A137)-WBH	3.09	47	01
051132	WBSC LM1 (A137)-WBH	3.51	48	01
051141	WBSC LM1 (A138)-WBH	4.60	47	01
051142	WBSC LM1 (A138)-WBH	4.92	48	01
051211	WBSC RM2 (A139)-WBH	2.76	47	02
051212	WBSC RM2 (A139)-WBH	2.88	48	02
051221	WBSC RM2 (A140)-WBH	2.41	47	02
051222	WBSC RM2 (A141)-WBH	2.41	48	02
051231	WBSC RM2 (A141)-WBH	3.90	47	02
051232	WBSC RM2 (A141)-WBH	2.88	48	02
051241	WBSC RM2 (A142)-WBH	2.88	47	02
051242	WBSC RM2 (A142)-WBH	4.86	47	02
051311	WBSC LM3 (A143)-ASCT	7.64	47	03

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Figure 6.4-1. - Continued

051321	WSSC LM3 (A144)-ASCT	2.17	47	03
051322	WSSC LM3 (A144)-WBM	6.02	47	03
051331	WSSC LM3 (A145)-ASCT	3.39	47	03
051332	WSSC LM3 (A145)-100%	2.43	47	03
051333	WSSC LM3 (A145)-100%	2.68	47	03
051340	WSSC LM3 (A146)-ASCT	2.51	47	03
051401	DC-DC XDUCCERS-FWD	14.07	47	01
051402	DC-DC XDUCCERS-FWD	5.11	12	01
051403	DC-DC XDUCCERS-FWD	5.18	47	01
051404	DC-DC XDUCCERS-MID L1	26.57	47	01
051405	DC-DC XDUCCERS-MID L1	7.12	47	01
051406	DC-DC XDUCCERS-MID L1	4.86	48	01
051407	DC-DC XDUCCERS-MID R2	25.01	47	01
051408	DC-DC XDUCCERS-MID R2	1.74	47	01
051409	DC-DC XDUCCERS-MID R2	3.24	48	01
051411	DC-DC XDUCCERS-MID L3	1.69	47	01
051412	DC-DC XDUCCERS-MID L3	34.38	47	01
051501	SGSC FWD (A161)-100%	21.88	12	04
051502	SGSC FWD (A161)-WBM	15.53	12	04
051503	SGSC FWD (A161)-WBM	5.21	12	04
051504	SGSC FWD (A161)-WBM	14.58	12	04
051611	SGSC ML1 (A162)-100%	40.57	47	01
051612	SGSC ML1 (A162)-WBM	13.37	47	01
051613	SGSC ML1 (A162)-WBM	13.86	48	01
051621	SGSC ML1 (A163)-100%	56.87	47	01
051622	SGSC ML1 (A163)-WBM	27.72	48	01
051623	SGSC ML1 (A163)-WBM	6.69	47	01
051624	SGSC ML1 (A163)-100%	6.93	48	01
051625	SGSC ML1 (A163)-100%	26.74	47	01
051631	SGSC MR2 (A164)-100%	101.13	48	02
051632	SGSC MR2 (A164)-100%	20.79	48	02
051641	SGSC MR2 (A165)-100%	93.32	48	02
051642	SGSC MR2 (A165)-100%	34.65	48	02
051651	SGSC MR2 (A169)-100%	63.89	48	02
051652	SGSC MR2 (A169)-WBM	27.72	48	02
051653	SGSC MR2 (A169)-WBM	20.06	47	02
051654	SGSC MR2 (A169)-100%	27.72	48	02
051661	SGSC ML3 (A166)-100%	66.25	48	03
051662	SGSC ML3 (A166)-WBM	26.74	47	03
051671	SGSC ML3 (A167)-100%	53.99	48	03
051672	SGSC ML3 (A167)-WBM	40.11	47	03
051673	SGSC ML3 (A167)-100%	20.29	48	03
051700	MDM DF1 - FWD	53.90	12	04
051801	MDM CL1 - MID LEFT 1	50.00	44	01
051802	MDM CL2 - MID LEFT 1	50.20	44	01
051803	MDM DR1 - MID RGHT 2	50.00	44	02
051804	MDM DR2 - MID RGHT 2	52.80	44	02
051805	MDM OC1 - MID LEFT 3	49.10	44	03
051806	MDM OC2 - MID LEFT 3	52.50	44	03
051900	5-AXIS ACCEL	113.65	12	04
052200	APS DFI SIGNAL COND	8.10	215	01
052300	ATCS DFI SIGNAL COND	1.97	217	01
052401	DFI FREQ PUMP F1	309.76	201	01
052500	3-AXIS ACCEL	1.61	12	01
053700	ACIP PACKAGE	96.25	49	01
053800	ACIP PCM MASTER	18.16	49	01
053900	ACIP PCM SLAVE	10.90	49	01

234.00

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Figure 6.4-1. - Continued

054000	ACIP MINI DHE	18.16		49	OT	
054010	INTF CNVL MOD-ACIP	3.45		49	AC	
054101	DATA CAMERA 1 HEATER	63.00	50.00	72	OT	
054102	DATA CAMERA 2 HEATER	63.00	50.00	72	OT	
054103	SURVEILLANCE CAM HTR	63.00	50.00	72	OT	
055100	PCM MULTIPLEXER	22.13		76	OT	
055200	FM MULTIPLEXER	26.44		76	OT	
055210	FM MULTIPLEXER	10.44		76	OT	
055300	CHARGE AMPLIFIER	9.37		76	OT	
055400	LEVEL SENSOR-ELECT	38.14		76	OT	
055500	PRESSURE MEASUREMENT	6.99		76	OT	
060301	MEC-1-AVERAGE	84.00	*	78	F4	
060302	MEC-2-AVERAGE	84.00	*	79	F5	
060901	GRND-CMDS-INTFC-UN-A	24.69		33	W3	
061001	INV-DIST-CTL-ASY1-DC	2.53		41	A1	
061002	INV-DIST-CTL-ASY1-AC	2.78		201	A1	2.10
061003	INV-DIST-CTL-ASY2-DC	2.53		42	A2	
061004	INV-DIST-CTL-ASY2-AC	2.75		202	A2	2.10
061005	INV-DIST-CTL-ASY3-DC	2.53		43	A3	
061006	INV-DIST-CTL-ASY3-AC	2.77		203	A3	2.10
061701	CUPR-SENSOR-MIDBODY-1	3.04		7	OT	
061702	CUPR-SENSOR-MIDBODY-2	3.12		8	OT	
061703	CUPR-SENSOR-MIDBODY-3	3.13		9	OT	
061704	CUPR-SENSOR-PL-MN-B	2.91		64	OT	
061705	CUPR-SENSOR-PL-MN-C	2.90		65	OT	
061706	CUPR-SENSOR-LH-ADP	2.94		22	OT	
061707	CUPR-SENSOR-LH-ADP	2.94		23	OT	
061708	CUPR-SENSOR-RH-ADP	2.94		23	OT	
061709	CUPR-SENSOR-RH-ADP	2.94		23	OT	
061801	H202-CRYO-ASY1A-QUES	10.56		7	FM	
061802	H202-CRYO-ASY1B-QUES	10.88		9	FM	
061811	H202-CRYO-ASY2A-QUES	10.88		8	FM	
061812	H202-CRYO-ASY2B-QUES	10.88		9	FM	
062001	PROX-SNSR-EL-PKG-1	10.51		217	A1	8.00A
062002	PROX-SNSR-EL-PKG-2	10.46		214	A2	8.00A
062101	MTR-CNTL-ASSY-FWD-1	3.45	15.00	22	W1	
062102	MTR-CNTL-ASSY-FWD-2	3.20	12.50	23	W2	
062103	MTR-CNTL-ASSY-FWD-3	4.34	18.90	24	W3	
062201	MTR-CNTL-ASSY-MID-1	10.68	22.80	44	FM	
062202	MTR-CNTL-ASSY-MID-2	11.23	13.50	45	FM	
062203	MTR-CNTL-ASSY-MID-3	9.29	20.20	44	FM	
062204	MTR-CNTL-ASSY-MID-4	11.10	13.20	45	FM	
062301	MTR-CNTL-ASSY-AFT-1	7.43	20.00	63	F4	
062302	MTR-CNTL-ASSY-AFT-2	6.99	20.70	64	F5	
062303	MTR-CNTL-ASSY-AFT-3	12.52	30.60	65	F6	
062401	LOAD-CNTL-ASSY-FWD1	19.88	26.78	32	W1	
062402	LOAD-CNTL-ASSY-FWD2	22.59	30.51	33	W2	
062403	LOAD-CNTL-ASSY-FWD3	27.99	37.77	34	W3	
062501	LOAD-CNTL-ASSY-AFT1	95.74	42.17	84	F4	
062502	LOAD-CNTL-ASSY-AFT2	92.48	43.46	85	F5	
062503	LOAD-CNTL-ASSY-AFT3	97.45	53.26	86	F6	
062601	PCA-FWD-1	60.42	21.72	22	W1	
062602	PCA-FWD-2	63.08	22.66	23	W2	
062603	PCA-FWD-3	42.22	15.22	24	W3	
062701	PCA-MID-1	41.23	41.29	47	FM	
062702	PCA-MID-2	32.73	31.63	48	FM	
062703	PCA-MID-3	27.85	26.67	49	FM	

Figure 6.4-1. - Continued

062601	PCA AFT =1	45.72	66.02	72	F4
062602	PCA AFT =2	32.69	46.68	73	F5
062603	PCA AFT =3	20.95	30.01	74	F6
062604	PCA AFT =4	31.47	45.37	60	F4
062605	PCA AFT =5	54.56	78.78	61	F5
062606	PCA AFT =6	37.73	64.92	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	313.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	340.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	340.00	*	31	A2
070301	MDM FF 1	58.90		28	W1
070302	MDM FF 2	60.00		28	W2
070303	MDM FF 3	55.50		30	W3
070304	MDM FF 4	55.60		29	W2
070401	MDM FA1	54.80		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6
070501	MM =1 TAPE OPER	17.06	*	22	W1
070502	MM =2 TAPE OPER	17.07	*	23	W2
071001	MDM OFI 1	46.80		19	W1
071002	MDM OFI 2	46.80		19	W2
071003	MDM OFI 3	47.40		21	W3
071004	MDM OFI 4 -FLT-DECK	40.40		21	W4
071101	MDM OAT 1	41.30		66	F4
071102	MDM OAT 2	42.10		67	F5
071103	MDM OAT 3	42.70		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
071501	ENG INTRFC UN =1	49.30		66	F4
071502	ENG INTRFC UN =2	49.30		67	F5
071503	ENG INTRFC UN =3	49.30		68	F6
071602	OBIA#1 SRB-HI RATE	12.20	*	78	F4
071604	OBIA#2 SRB-HI RATE	12.20	*	78	F5
075001	GPC CNTLR 1 PS A	6.03		31	A1
075002	GPC CNTLR 1 PS B	6.03		31	A1
075003	GPC CNTLR 2 PS A	6.03		31	A2
075004	GPC CNTLR 2 PS B	6.03		31	A2
075005	GPC CNTLR 3 PS A	6.03		31	A2
075006	GPC CNTLR 3 PS B	1.16		31	A2
160101	MDM =1 LH SRB	52.00		91	OT
160102	MDM =2 LH SRB	52.00		91	OT
160103	MDM =1 RH SRB	52.00		94	OT
160104	MDM =2 RH SRB	52.00		94	OT
160301	PGA =1 LH SRB (RUN)	15.95		102	OT
160302	PGA =2 LH SRB (RUN)	15.94		103	OT
160303	PGA =3 LH SRB (RUN)	15.71		96	OT
160304	PGA =1 RH SRB (RUN)	15.94		104	OT
160305	PGA =2 RH SRB (RUN)	15.94		105	OT
160306	PGA =3 RH SRB (RUN)	15.71		97	OT
160501	SIG COND =1 LH SRB	11.46		91	OT

Figure 6.4-1. - Continued

160502	SIG COND -2 LH SRB	11.46	91	OT			
160503	SIG COND -1 RH SRB	11.45	94	OT			
160504	SIG COND -2 RH SRB	11.45	94	OT			
161201	CHBR PR XDCR-A LHSRB	.87	90	OT			
161202	CHBR PR XDCR-B LHSRB	.86	92	OT			
161203	CHBR PR XDCR-C LHSRB	.77	96	OT			
161204	CHBR PR XDCR-A RHSRB	.86	93	OT			
161205	CHBR PR XDCR-B RHSRB	.86	95	OT			
161206	CHBR PR XDCR-C RHSRB	.77	97	OT			
161601	APU CNTL ASY A-LSRB	9.46	102	OT			
161602	APU CNTL ASY B-LSRB	9.45	103	OT			
161603	APU CNTL ASY A-RSRB	9.45	104	OT			
161604	APU CNTL ASY B-RSRB	9.45	105	OT			
162501	HFU A GG HTR 1-LHSRB	43.98	102	OT			
162502	HFU B GG HTR 1-LHSRB	43.94	103	OT			
162503	HFU A GG HTR 1-RHSRB	43.95	104	OT			
162507	HFU B GG HTR 1-RHSRB	43.94	105	OT			
200101	MN ENG CNTLR 1 CH A	476.59	201	OT	480.00		
200102	MN ENG CNTLR 1 CH B	372.71	202	OT		330.00	
200103	MN ENG CNTLR 2 CH A	470.59	202	OT		480.00	
200104	MN ENG CNTLR 2 CH B	376.43	203	OT			330.00
200105	MN ENG CNTLR 3 CH A	475.29	203	OT			480.00
200106	MN ENG CNTLR 3 CH B	377.46	201	OT	330.00		
200301	LOX PREVLV 1 OP SOL	29.10	69	OT			
200303	LOX PREVLV 2 OP SOL	29.13	70	OT			
200305	LOX PREVLV 3 OP SOL	29.10	71	OT			
200402	LH2 PREVLV 1 CL SOL	29.10	69	OT			
200404	LH2 PREVLV 2 CL SOL	29.13	70	OT			
200406	LH2 PREVLV 3 CL SOL	29.10	71	OT			
200502	LO2 OR F+D VL OP SOL	30.65	86	OT			
200602	LO2 IB F+D VL OP SOL	30.89	85	OT			
200702	LH2 OR F+D VL OP SOL	30.89	85	OT			
200801	LH2 IB F+D VL CL SOL	30.90	84	OT			
200810	LH2 HT PT RLD VALVE	30.90	84	OT			
200903	LH2 TOP VLV OP SOL	30.90	84	OT			
201101	LO2 FD DSC VL OP SOL	31.12	79	OT			
201201	LH2 FD DSC VL OP SOL	31.12	79	OT			
201301	LH2 RC DSC VL OP SOL	30.65	86	OT			
201400	LO2 REL F S/V CL SOL	34.65	46	OT			
201503	LH2 REL F S/V CL SOL	34.65	46	OT			
202101	ENG 1 HE SPY ISO VLA	30.90	84	OT			
202102	ENG 1 HE SPY ISO VLB	31.08	67	OT			
202103	ENG 2 HE SPY ISO VLA	30.89	85	OT			
202104	ENG 2 HE SPY ISO VLB	31.12	68	OT			
202105	ENG 3 HE SPY ISO VLA	30.65	86	OT			
202106	ENG 3 HE SPY ISO VLB	31.13	66	OT			
202201	PNEU HE SPY ISO VL 1	30.90	84	OT			
202202	PNEU HE SPY ISO VL 2	30.89	85	OT			
202701	ULL PRES SIG COND -1	9.07	84	F4			
202702	ULL PRES SIG COND -2	8.93	82	F5			
202703	ULL PRES SIG COND -3	8.87	83	F6			
202801	POINT SNSR ELCC-BUS1	23.88	84	OT			
202802	POINT SNSR ELCC-BUS2	23.88	85	OT			
202803	POINT SNSR ELCC-BUS3	24.05	72	OT			
202804	POINT SNSR ELCC-BUS4	23.69	86	OT			
203201	LO2 POGO ACC VL 1 CL	30.90	84	OT			
203202	LO2 POGO ACC VL 2 CL	30.89	85	OT			

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Figure 6.4-1. - Continued

203701	ENG 1 FASCOS SYS A	18.99		63	OT			
203702	ENG 1 FASCOS SYS B	18.91		64	OT			
203703	ENG 1 FASCOS SYS C	18.83		65	OT			
203704	ENG 2 FASCOS SYS A	18.99		63	OT			
203705	ENG 2 FASCOS SYS B	18.91		64	OT			
203706	ENG 2 FASCOS SYS C	18.83		65	OT			
203707	ENG 3 FASCOS SYS A	18.99		63	OT			
203708	ENG 3 FASCOS SYS B	18.91		64	OT			
203709	ENG 3 FASCOS SYS C	18.83		65	OT			
210701	LP ACT GMBL INST/LOG	5.77		72	OT			
210702	LP STB GMBL INST/LOG	5.85		73	OT			
210703	RP ACT GMBL INST/LOG	5.82		74	OT			
210704	RP STB GMBL INST/LOG	5.77		72	OT			
211501	BIPROP VL1 LP POS ID	1.15		72	OT			
211502	BIPROP VL2 LP POS ID	1.17		73	OT			
211503	BIPROP VL1 RP POS ID	1.15		72	OT			
211504	BIPROP VL2 RP POS ID	1.16		74	OT			
212106	TK ISO AXFD VL TLK BCK	2.25		72	OT			
212401	QUAN GAGE TOT-LP-OPR	7.53	*	78	OT			
212402	QUAN GAGE TOT-RP-OPR	7.52	*	80	OT			
217001	XFD OX/FU FLXL HTA-L	28.40		72	OT			
217003	XFD OX/FU FLXL HTA-R	28.40	80.00	72	OT			
217101	XFD OX/FU LNE HT-A-L	37.14	60.00	72	OT			
217103	XFD OX/FU LNE HT-A-R	37.14	60.00	72	OT			
217105	XFD OX/FU LNE HT-A-C	72.24	80.00	72	OT			
217201	FU HIPT BLDLN HT-A-A	12.08	80.00	72	OT			
217301	OX HIPT BLDLN HT-A-A	12.08	80.00	72	OT			
217401	LOPT OXFU DRLN HTA-L	7.90		72	OT			
217403	LOPT OXFU DRLN HTA-R	7.90		72	OT			
300201	FCP =1 O2 FLOWMETER	5.38		47	OT			
300202	FCP =2 O2 FLOWMETER	5.67		48	OT			
300203	FCP =3 O2 FLOWMETER	5.72		49	OT			
300301	FCP =1 H2 FLOWMETER	5.38		47	OT			
300302	FCP =2 H2 FLOWMETER	5.67		48	OT			
300303	FCP =3 H2 FLOWMETER	5.72		49	OT			
300401	FCP1 EL CTL-ORBT	4.29		38	OT			
300402	FCP2 EL CTL-ORBT	4.27		39	OT			
300403	FCP3 EL CTL-ORBT	4.21		40	OT			
300501	FCP1 PMP+H2O SENSOR	238.96		201	OT	180.50		
300502	FCP2 PMP+H2O SENSOR	236.34		202	OT		180.80	
300503	FCP3 PMP+H2O SENSOR	242.26		203	OT			183.50
310301	O2 INK1 SIG COND QTY	2.04		42	OT			
310303	O2 INK2 SIG COND QTY	2.04		41	OT			
310304	H2 INK2 SIG COND QTY	2.22		41	OT			
320301	APU1 CNTLR-OPERATE	5.56	*	66	FS			
320302	APU2 CNTLR-OPERATE	5.55	*	67	FS			
320303	APU3 CNTLR-OPERATE	5.56	*	68	FS			
325202	FUEL FEEDLINE HTR 1B	30.46	45.00	85	OT			
325204	FUEL FEEDLINE HTR 2B	36.45	45.00	86	OT			
325206	FUEL FEEDLINE HTR 3B	21.46	45.00	84	OT			
325302	FUEL SERVLINE HTR 1B	32.25	50.00	85	OT			
325304	FUEL SERVLINE HTR 2B	23.85	50.00	86	OT			
325306	FUEL SERVLINE HTR 3B	32.25	50.00	84	OT			
325501	FUEL PMP/LINE HTR 1A	18.18	32.00	84	OT			
325503	FUEL PMP/LINE HTR 2A	18.18	32.00	85	OT			
325505	FUEL PMP/LINE HTR 3A	18.18	32.00	86	OT			

Figure 6.4-1. - Continued

325601	TURB GAS GEN HTR 1A	35.22	62.00	84	OT			
325602	TURB GAS GEN HTR 2A	34.66	61.00	82	OT			
325603	TURB GAS GEN HTR 3A	34.08	60.00	86	OT			
325605	TURB GAS GEN HTR 1A	10.30	15.00	84	OT			
325701	OIL LINE HTR 2A	10.65	15.00	85	OT			
325703	OIL LINE HTR 3A	10.65	15.00	86	OT			
325705	OIL LINE HTR 1A	16.98	60.00	75	OT			
325801	APU 1 PRI H2O HTR 1A	4.92	60.00	76	OT			
325803	APU 2 PRI H2O HTR 1A	16.08	60.00	77	OT			
325805	APU 3 PRI H2O HTR 1A	16.08	60.00	75	OT			
325901	APU 1 SEC H2O HTR 2A	8.22	60.00	76	OT			
325902	APU 2 SEC H2O HTR 2A	8.22	60.00	77	OT			
325903	APU 3 SEC H2O HTR 2A	8.22	60.00	75	OT			
325905	GG H2O TK LN HT 504A	7.50	60.00	77	OT			
326301	GG H2O TK LN HT 503A	13.62	60.00	77	OT			
326303	CABIN FAN A	652.20		203	HX			494.00
400101	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400201	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400301	CAB AIR SIGNAL COND	4.89		212	AC	1.708		
400400	ARS HUMIDITY SEP B	37.25		202	AC		28.50	1.80A
400502	ARS HUM SEP SIG CND	2.36		217	AC			
400600	PP02 CNTRL-SYS 1	.65		16	AC			
400701	PP02 CNTRL-SYS 2	.65		17	AC			
400702	O2 CONTROL VLV-SYS 1	4.35	50.00	16	AC			
400711	O2 CONTROL VLV-SYS 2	4.37	50.00	17	AC			
400712	CABIN PRESS SENSOR	.65		16	AC			
400731	CAB PRES DECAT SENSOR	1.86		17	AC			
400751	O2 FLOW SENSOR-SYS 1	.93		16	AC			
400752	O2 FLOW SENSOR-SYS 2	.93		17	AC			
400753	N2 FLOW SENSOR-SYS 1	.93		16	AC			
400754	N2 FLOW SENSOR-SYS 2	.93		17	AC			
400761	PP02 SENSOR-SYS 1	.74		16	AC			
400762	PP02 SENSOR-SYS 2	.74		17	AC			
400763	PP02 SENSOR-SYS 3	.74		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		201	A2	168.00		
400806	AVION FAN-BAY 3 (B)	222.41		218	A3			2.408
400901	AVION BAY 1 SIG COND	3.16		212	AC	1.808		
400902	AVION BAY 2 SIG COND	2.38		215	AC		2.508	
400903	AVION BAY 3 SIG COND	3.27		16	OT			
401001	SMOKE DT SNR-L FLT D	6.01		16	OT			
401002	SMOKE DT SNR-R FLT D	6.13		18	OT			
401003	S D SNRSR A - BAY 1	6.05		17	OT			
401004	S D SNRSR B - BAY 1	6.01		16	OT			
401005	S D SNRSR A - BAY 2	6.13		18	OT			
401006	S D SNRSR B - BAY 2	6.06		17	OT			
401007	S D SNRSR A - BAY 3	6.01		16	OT			
401008	S D SNRSR B - BAY 3	6.13		18	OT			
401009	S D SNRSR - CABIN	63.53		202	MC		48.60	
401102	IMU FAN B	2.37		218	AC			1.808
401200	IMU FAN SIG COND	253.22		203	MC			191.80
401303	H2O PUMP - LOOP 2	7.75		217	AC			5.90A
401501	H2O BYPASS CN SC-PRI	7.84		201	AC	5.90A		
401502	H2O BYPASS CN SC-SEC	495.13	*	201	FP	374.00		374.00
402901	FREON PMP LP 1-A ASC	493.77	*	203	FP		5.008	
402903	FREON PMP LP 2-A ASC	6.54		215	OT			5.008
403601	FREON COOL LP1 INSTR	6.58		218	OT			
403602	FREON COOL LP2 INSTR							

Figure 6.4-1. - Continued

408501	HI LD DUCT HTR1 SEC1	232.51	42.00	47	OT			
408601	HI LD DUCT HTR1 SEC2	46.02	11.00	47	OT			
408701	HI LD DUCT NOZ HT GP1	125.47	96.00	47	OT			
409001	TOP*G DUCT HTR1 SEC1	344.80	91.00	47	OT			
409101	TOP*G DUCT HTR1 SEC2	468.60		47	OT			
409201	TOP*G DUCT HTR1 SEC3	62.80		84	OT			
409301	TOP*G DUCT HTR1 SEC4	64.80		84	OT			
500400	LG RETRACT CIRC VLV	14.92		28	OT			
500601	RESVOIR =1 VOL SNSR	1.85		212	OT	1.40B		
500802	RESVOIR =2 VOL SNSR	1.83		215	OT		1.40B	
500803	RESVOIR =3 VOL SNSR	1.84		218	OT			1.40B
503701	H2O BLR1 CNT LOGIC A	4.73		217	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.96		213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.72		214	OT		2.90A	
503801	H2O BOILR 1 CNTL A	.65		65	OT			
503803	H2O BOILR 2 CNTL A	.58		63	OT			
503805	H2O BOILR 3 CNTL A	.66		64	OT			
505101	CIRC MOTOR PUMP =1	1944.00		60	OT			
505102	CIRC MOTOR PUMP =2	1944.00		61	OT			
505103	CIRC MOTOR PUMP =3	1944.00		62	OT			
522701	BRK/SKID CNTL BOX A	15.90		30	A1			
522702	BRK/SKID CNTL BOX R	15.92		29	A2			
600301	ESCAPE SUIT VT ASY L	88.02		11	AC			
600302	ESCAPE SUIT VT ASY R	85.95		10	AC			
			TOTAL INVERTER WATTS =	2937.59		2250.98		2625.94
			TOTAL 1 PHASE WATTS =	1768.60		1401.00		2055.40
			TOTAL A PHASE WATTS =	250.60		163.80		20.80
			TOTAL B PHASE WATTS =	201.40		175.60		68.40
			TOTAL C PHASE WATTS =	163.00		160.00		160.00

Figure 6.4-1. - Concluded

588

TOTAL WATTS - 30838.00

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME -000:09:59.9

Figure 6.4-2.- Vehicle configuration at liftoff

589

LISTING OF ALL ACTIVE COMPONENTS AT TIME 000:00:00.0
--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-2. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	117.80	*		28	WC			
010102	IMU =2 OPERATE	117.80	*		29	WC			
010103	IMU =3 OPERATE	117.80	*		30	WC			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010801	ATVC =1 PWR SUP-OPER	50.00	*		66	F4			
010802	ATVC =2 PWR SUP-OPER	50.00	*		67	F5			
010803	ATVC =3 PWR SUP-OPER	50.00	*		68	F6			
010804	ATVC =4 PWR SUP-OPER	50.00	*		80	F6			
010811	ATVC =1 ISO VLV DRVR	.74			65	F4			
010812	ATVC =2 ISO VLV DRVR	.74			63	F5			
010813	ATVC =3 ISO VLV DRVR	.74			64	F6			
010814	ATVC =4 ISO VLV DRVR	.74			76	F6			
010821	ATVC =1 ACTS-OPER	8.70	*		66	OT			
010822	ATVC =2 ACTS-OPER	8.70	*		67	OT			
010823	ATVC =3 ACTS-OPER	8.70	*		68	OT			
010824	ATVC =4 ACTS-OPER	8.70	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	52.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	52.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	52.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	52.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	2.50	*		66	F4			
011002	ASA =2 IVD/BF-OPER	3.60	*		67	F5			
011003	ASA =3 IVD/BF-OPER	1.40	*		68	F6			
011004	ASA =4 IVD-OPER	32.36	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	32.37	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	32.37	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	32.37	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	15.57	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			80	F4			
011201	RJDA =1A PRI RCS	13.20			78	F4			
011202	RJDA =1B PRI/VN RCS	15.60			80	F6			
011203	RJDA =2A PRI RCS	13.20			79	F6			
011204	RJDA =2B PRI/VN RCS	15.60			78	FA			
011301	RCA =1 OPR	24.97	*		64	FA			
011302	RCA =2 OPR	24.29	*		49	FA			
011303	RCA =3 OPR	24.59	*		46	FA			
011304	RCA =4 OPR	24.31	*		16	A1			
011401	ACCEL ASSY =1 - OPER	2.40			17	A2			
011402	ACCEL ASSY =2 - OPER	2.40			10	A2			
011403	ACCEL ASSY =3 - OPER	2.40			29	A1			
011404	ACCEL ASSY =4 - OPER	2.40			19	AC			
011601	THC-LH	4.55			19	AC			
011701	RHC-LH	4.57			20	AC			
011801	RHC-RH	1.16			19	AC			
011802	RPTA-LH	1.17			20	AC			
011803	RPTA-RH	1.17			19	AC			
011901	SBTC-LH	1.55							

Figure 6.4-2. - Continued

011902	SBTC-RM	1.56	20	AC			
020802	NTWK SIG PROCESSOR 2	26.67	14	W3			
021101	S-BAND FM XMITR =1	65.94	33	W3			
021200	S-BND FM SIG PRO-ORB	4.71	36	A3			
021302	S-BND XPNDR=2-DIRECT	55.51	34	W3			
021401	S-BND PWR AMP 1-SBY	19.89	31	W3			
021402	S-BND PWR AMP 2-OPP	382.86	24	W3			
021501	S-BD PREAMP 1-SBY	12.11	33	W3			
021502	S-BD PREAMP 2-OPR	17.78	34	W3			
021600	S-BND ANT SW AST-BES	1.52	33	A3			
021701	TACAN =1 SEARCH	211.66	213	A1	160.00C		
021702	TACAN =2 SEARCH	209.27	216	A2		160.00C	
021703	TACAN =3 SEARCH	213.03	219	A3			160.00C
022101	RADAR ALTIMETER =1	22.51	16	W1			
022102	RADAR ALTIMETER =2	22.54	17	W2			
022201	UHF XCVR-XMT/REC	55.10	10	AC			
024101	AUDIO CENTER 1	17.18	42	W1			
024201	AUDIO TERM UN-PLY RT	3.25	42	AC			
024202	AUDIO TERM UN-CDR LT	3.26	41	AC			
024203	AUDIO TERM UNIT-MSS	3.33	10	AC			
024204	AUDIO TERM UNIT-PS	3.45	15	AC			
024801	AUDIO INTF UNIT-PLT	.65	42	AC			
024802	AUDIO INTF UNIT-CHDR	.65	41	AC			
024910	MULTIPLE HDSET ADPTR	.65	41	AC			
030101	ADT =1 FWD LH	16.56	19	AC			
030102	ADT =2 FWD RH	16.62	20	AC			
030201	HST =1	26.13	16	AC			
030202	HST =2	26.17	17	AC			
030301	AMI =1	6.85	16	AC			
030302	AMI =2	6.86	17	AC			
030401	ALPHA MACH EL UNIT 1	30.73	16	HX			
030402	ALPHA MACH EL UNIT 2	30.78	17	HX			
030501	AVVI =1	6.85	16	AC			
030502	AVVI =2	6.86	17	AC			
030601	ALT VER VEL EL UN =1	24.08	16	HX			
030602	ALT VER VEL EL UN =2	24.11	17	HX			
030701	TAPE MTR M1 (MPS PR)	8.81	16	AC			
030702	TAPE MTR M2 (MPS PR)	8.87	16	AC			
030703	TAPE MTR M3 (MPS PR)	11.75	16	AC			
030705	TAPE MTR M1 (HYD PR)	8.82	17	AC			
030706	TAPE MTR M2 (HYD QTY)	8.82	17	AC			
030707	TAPE MTR M3 (APU)	8.82	17	AC			
030708	TAPE MTR M4 (APU OIL)	5.88	17	AC			
031300	SPI	17.40	16	AC			
031400	OMS/RCS PROP QTY IND	4.78	18	AC			
031501	C+W PWR SUP A-STBY	19.93	41	A3			
031502	C+W PWR SUP B-STBY	12.64	42	A3			
031701	MISSION TIMER =1 FWD	3.43	16	AC			
031702	MISSION TIMER =2 AFT	3.53	17	AC			
031801	EVENT TIMER =1 FWD	2.94	16	AC			
031802	EVENT TIMER =2 AFT	2.94	19	HX			
032201	DDU =1 FWD LH	120.00	20	HX			
032202	DDU =2 FWD RH	120.00	22	HX			
032701	CRT DU =1 - LF	81.22	23	HX			
032702	CRT DU =2 - RF	81.24	24	HX			
032703	CRT DU =3 - CF	61.21	22	HX			
032801	DEU =1	202.00					

Figure 6.4-2. - Continued

032802	DEU =2	202.00		23	HX			
032803	DEU =3	202.00		24	HX			
033101	PANEL LTS - LEFT/CTR	259.61		211	AC	195.00A		
033102	PANEL LTS - LFT/OVHD	234.55		212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	173.87		215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	172.55		215	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	76.21		218	AC			57.80B
033202	INSTR LTS - OVERHEAD	35.95		215	AC		27.50B	
033203	INSTR LTS - RIGHT	66.17		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	23.19		212	AC	17.50B		
034202	GLARSHLD FLDLT-LEFT	30.74	*	41	AC			
034203	GLARSHLD FLDLT-RGHT	30.68	*	42	AC			
034204	LRFT OVERHEAD FLDLT A	22.05		17	AC			
034205	RHT OVERHEAD FLDLT A	22.17		18	AC			
034206	CONSOLE FLDLT-CMDILI	16.15		16	AC			
034207	CONSOLE FLDLT-PLT	16.17		17	AC			
035600	C+W ANNUN ASSY-OPR	7.45	*	41	AC			
037100	CICU - OPR	6.53	*	41	AI			
037301	ACA =1	32.31		16	AC			
037302	ACA =2/3	65.31		17	AC			
037303	ACA =4/5	53.69		18	AC			
037401	ANNUN 1	12.16		16	AC			
037402	ANNUN 2/3	22.64		17	AC			
037403	ANNUN 4/5	19.03		18	AC			
040301	PCM MASTER UNIT =1	55.00		30	W1			
040401	OPS-1 RECORDER-REPLY	49.20	*	29	W2			
040402	OPS-2 RECORDER-REPLY	49.20	*	29	W2			
040403	PAYLD RECORDER-REPLY	49.21	*	30	W1			
040501	DED SIG CND OF1- FWD	22.80		19	W1			
040502	DED SIG CND OF2- FWD	22.60		20	W2			
040503	DED SIG CND OF3- FWD	26.80		20	W3			
040601	DED SIG CND OA1- AFT	36.20		66	FW			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPR	28.83		43	W4			
041201	DSC OL1 OMS/RCS	21.30		78	OT			
041202	DSC OL2 OMS/RCS	21.40		80	OT			
041203	DSC OL3 OMS/RCS	21.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FLD RCS	26.90		19	OT			
041601	WDRND S/C =1 (BAY4)	.37		63	OT			
041602	WDRND S/C =2 (BAY4)	.37		63	OT			
041603	WDRND S/C =3 (BAY4)	.37		63	OT			
041604	WDRND S/C =4 (BAY4)	.37		63	OT			
041701	WDRND S/C =1 (BAY5)	.37		64	OT			
041702	WDRND S/C =2 (BAY5)	.37		64	OT			
050100	PWR DIST ASSY FWD	9.82		12	DW			
050201	PWR DIST ASSY =1 MID	9.16		44	D1			
050202	PWR DIST ASSY =2 MID	9.16		44	D2			
050203	PWR DIST ASSY =3 MID	9.16		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FWD =1-SDF1	22.20		12	DW			
050402	DSC FWD =2-SDF2	22.20		12	DW			
050403	DSC FWD =3-SDF3	22.50		12	DW			
050501	DSC UNIT #1 - SOL1	16.60		44	D1			

Figure 6.4-2. - Continued

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050502	DSC UNIT #2 - SCL2	24.70	44	D1
050503	DSC UNIT #3 - SCL3	16.60	44	D1
050504	DSC UNIT #4 - SCL4	24.70	44	D1
050505	DSC UNIT #5 - SCL5	46.70	44	D1
050506	DSC UNIT #1 - SDR1	16.60	44	D2
050507	DSC UNIT #2 - SDR2	24.70	44	D2
050508	DSC UNIT #3 - SDR3	16.60	44	D2
050509	DSC UNIT #4 - SDR4	46.80	44	D2
050601	DSC UNIT #1 - SDC1	16.60	44	D3
050602	DSC UNIT #2 - SDC2	23.43	44	D3
050603	DSC UNIT #3 - SDC3	16.60	44	D3
050604	DSC UNIT #4 - SDC4	17.70	44	D3
050605	DSC UNIT #5 - SDC5	16.60	44	D3
050701	WB FDM 1A (FMF1)-FWD	24.54	12	DM
050702	WB FDM 1B (FMF1)-FWD	24.54	12	DM
050703	WB FDM 2A (FMF2)-FWD	24.54	12	DM
050704	WB FDM 2B (FMF2)-FWD	24.54	12	DM
050705	WB FDM 3A (FMF3)-FWD	24.54	12	DM
050706	WB FDM 3B (FMF3)-FWD	24.54	12	DM
050801	WDRND FDM UN1-MID L1	23.43	47	D1
050802	WDRND FDM UN1-MID L1	23.63	47	D1
050803	WDRND FDM UN2-MID L1	23.43	47	D1
050804	WDRND FDM UN2-MID L1	23.63	47	D1
050805	WDRND FDM UN1-MID R2	23.43	47	D2
050806	WDRND FDM UN1-MID R2	23.63	47	D2
050807	WDRND FDM UN2-MID R2	23.43	47	D2
050808	WDRND FDM UN2-MID R2	23.63	47	D2
050811	WDRND FDM UN1-MID L3	23.43	47	D3
050812	WDRND FDM UN1-MID L3	23.43	47	D3
050813	WDRND FDM UN2-MID L3	46.87	47	D3
050820	FREON FLOWTR-MID LT3	1.87	47	D3
050831	LOAD SEN ACCEL-1 FWD	3.44	12	DM
050832	LOAD SEN ACCEL-2 FWD	3.44	12	DM
050833	LOAD SEN ACCEL-MR 2	13.12	47	D2
050834	LOAD SEN ACCEL-MR 3	9.92	47	D2
050901	WDRND RCDRIASCI-RECO	68.72	12	DM
050910	WDRND RCDRIASCI-RECO	57.72	12	AC
050930	PCW RCDRIASCI-SERIAL	54.97	12	DM
051011	WBSC FWD (A131)-100%	2.75	12	DM
051012	WBSC FWD (A131)-ASCT	4.81	12	DM
051020	WBSC FWD (A132)-WBH	5.50	12	DM
051031	WBSC FWD (A133)-ASCT	3.39	12	DM
051032	WBSC FWD (A133)-WBH	7.56	12	DM
051041	WBSC FWD (A134)-WBH	9.33	12	DM
051111	WBSC LM1 (A135)-WBH	2.65	47	D1
051112	WBSC LM1 (A135)-WBH	1.28	47	D1
051121	WBSC LM1 (A136)-WBH	3.31	47	D1
051122	WBSC LM1 (A136)-WBH	1.66	47	D1
051131	WBSC LM1 (A137)-WBH	5.01	47	D1
051132	WBSC LM1 (A137)-WBH	4.31	47	D1
051141	WBSC LM1 (A138)-WBH	3.69	47	D1
051142	WBSC LM1 (A138)-WBH	4.97	47	D1
051211	WBSC RM2 (A139)-WBH	2.65	47	D2
051212	WBSC RM2 (A139)-WBH	3.00	47	D2
051221	WBSC RM2 (A140)-WBH	2.62	47	D2
051222	WBSC RM2 (A141)-WBH	2.62	47	D2
051231	WBSC RM2 (A141)-WBH	4.63	47	D2

Figure 6.4-2. - Continued

051232	WBSC RM2 (A1421)-WBM	4.31	47	D2
051241	WBSC RM2 (A1421)-WBM	5.02	47	D2
051242	WBSC RM2 (A1421)-WBM	5.25	47	D3
051311	WBSC LM3 (A1431)-ASCT	8.25	47	D3
051321	WBSC LM3 (A1441)-ASCT	2.24	47	D3
051322	WBSC LM3 (A1441)-WBM	6.56	47	D3
051331	WBSC LM3 (A1451)-ASCT	3.66	47	D3
051332	WBSC LM3 (A1451)-100%	3.62	48	D3
051333	WBSC LM3 (A1451)-100%	3.02	47	D3
051340	WBSC LM3 (A1461)-ASCT	0.19	47	OT
051401	DC-DC XDUCERS-FWD	15.19	12	OT
051402	DC-DC XDUCERS-FWD	5.30	47	OT
051403	DC-DC XDUCERS-FWD	6.81	47	OT
051404	DC-DC XDUCERS-MID L1	28.68	47	OT
051405	DC-DC XDUCERS-MID L1	7.69	47	OT
051406	DC-DC XDUCERS-MID R2	5.10	47	OT
051407	DC-DC XDUCERS-MID R2	27.00	47	OT
051408	DC-DC XDUCERS-MID R2	1.87	48	OT
051409	DC-DC XDUCERS-MID L3	3.40	47	OT
051411	DC-DC XDUCERS-MID L3	0.75	47	OT
051412	DC-DC XDUCERS-MID L3	37.12	47	OT
051501	SGSC FWD (A1611)-100%	22.68	12	DM
051502	SGSC FWD (A1611)-100%	16.10	12	DM
051503	SGSC FWD (A1611)-WBM	5.40	12	DM
051504	SGSC FWD (A1611)-WBM	15.12	12	DM
051611	SGSC HL1 (A1621)-100%	86.99	47	D1
051612	SGSC HL1 (A1621)-WBM	14.44	47	D1
051613	SGSC HL1 (A1621)-WBM	14.55	48	D1
051621	SGSC HL1 (A1631)-100%	61.40	47	D1
051622	SGSC HL1 (A1631)-WBM	29.11	48	D1
051623	SGSC HL1 (A1631)-WBM	7.22	47	D1
051624	SGSC HL1 (A1631)-100%	7.28	48	D1
051625	SGSC HL1 (A1631)-100%	28.87	47	D1
051631	SGSC MR2 (A1641)-100%	108.30	48	D2
051632	SGSC MR2 (A1641)-100%	21.83	48	D2
051641	SGSC MR2 (A1651)-100%	98.00	48	D2
051642	SGSC MR2 (A1651)-100%	36.38	48	D2
051651	SGSC MR2 (A1691)-100%	67.10	48	D2
051652	SGSC MR2 (A1691)-WBM	29.11	48	D2
051653	SGSC MR2 (A1691)-WBM	21.65	47	D2
051654	SGSC MR2 (A1691)-100%	29.11	48	D2
051661	SGSC HL3 (A1661)-100%	72.20	48	D3
051662	SGSC HL3 (A1661)-WBM	28.87	47	D3
051671	SGSC HL3 (A1671)-100%	56.70	48	D3
051672	SGSC HL3 (A1671)-WBM	43.31	47	D3
051673	SGSC HL3 (A1671)-100%	21.83	48	D3
051700	MDM DF1 - FWD	53.93	12	DM
051801	MDM DL1 - MID LEFT 1	50.00	44	D1
051802	MDM DL2 - MID LEFT 1	50.20	44	D1
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2
051804	MDM DR2 - MID RIGHT 2	52.80	44	D3
051805	MDM DC1 - MID LEFT 3	49.10	44	D3
051806	MDM DC2 - MID LEFT 3	52.50	44	D3
051900	S-BAND FM XMITR-DF1	117.80	12	DM
052200	ARS DF1 SIGNAL COND	8.11	21	OT
052300	ATCS DF1 SIGNAL COND	1.97	21	OT
052401	DF1 FRECN PUMP #1	310.43	201	D1

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Figure 6.4-2. - Continued

052500	3-AXIS ACCEL	1.67		12	OT			
053001	PAO CAMERA-LH WIND	16.88		16	AC			
053002	PAO CAMERA-CREW	16.47		17	AC			
053700	ACTP PACKAGE	100.46		49	OT			
053800	ACTP PCM MASTER	18.95		49	OT			
053805	ACTP PCM SLAVE	11.37		49	OT			
054000	ACTP MINI DHE	18.95		49	OT			
054010	INTF CNTL MOD-ACIP	3.60		49	AC			
054101	DATA CAMERA 1 HEATER	63.00	50.00	72	OT			
054102	DATA CAMERA 2 HEATER	63.00	50.00	72	OT			
054103	SURVEILLANCE CAM HTR	63.00	50.00	72	OT			
055100	PCM MULTIPLEXER	30.40		76	OT			
055200	FM MULTIPLEXER	31.87		76	OT			
055210	FM MULTIPLEXER	11.70		76	OT			
055300	CHARGE AMPLIFIER	10.50		76	OT			
055400	LEVEL SENSOR ELECT	42.74		76	OT			
055500	PRESSURE MEASUREMENT	7.83		76	OT			
060301	MEC-1-AVERAGE	84.00		78	F5			
060302	MEC-2-AVERAGE	84.00		79	F5			
060901	GRND CHDS INTFC UN A	26.13		33	W3			
061001	INV DIST+CTL ASY1-DC	.56		41	A1			
061002	INV DIST+CTL ASY1-AC	2.79		201	A1	2.10		
061003	INV DIST+CTL ASY2-DC	.56		42	A2			
061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10		
061005	INV DIST+CTL ASY3-DC	.56		43	A3			
061006	INV DIST+CTL ASY3-AC	2.78		203	A3	2.10		
061701	CURR SENSOR-MIDBODY=1	3.24		7	OT			
061702	CURR SENSOR-MIDBODY=2	3.27		8	OT			
061703	CURR SENSOR-MIDBODY=3	3.27		9	OT			
061704	CURR SENSOR-PL MN B	1.01		64	OT			
061705	CURR SENSOR-PL MN C	1.01		65	OT			
061706	CURR SENSOR-LH ADP	.99		22	OT			
061707	CURR SENSOR-LH ADP	.99		23	OT			
061708	CURR SENSOR-RH ADP	.99		23	OT			
061709	CURR SENSOR-RH ADP	.99		23	OT			
061801	H202 CRYO ASY1A-QUES	11.23		7	FM			
061802	H202 CRYO ASY1B-QUES	11.34		9	FM			
061811	H202 CRYO ASY1A-QUES	11.35		8	FM			
061812	H202 CRYO ASY2B-QUES	11.34		9	FM			
062001	PROX SNSR EL PKG =1	10.52		217	A1			
062002	PROX SNSR EL PKG =2	10.46		214	A2	8.00A	8.00A	
062101	MTR CNTL ASSY FWD =1	3.65		22	W1			
062102	MTR CNTL ASSY FWD =2	3.38	15.00	23	W2			
062103	MTR CNTL ASSY FWD =3	4.60	18.90	24	W3			
062201	MTR CNTL ASSY MID =1	11.28	22.80	44	FM			
062202	MTR CNTL ASSY MID =2	11.74	13.50	45	FM			
062203	MTR CNTL ASSY MID =3	9.81	20.20	45	FM			
062204	MTR CNTL ASSY MID =4	11.60	13.20	45	FM			
062301	MTR CNTL ASSY AFT =1	8.30	20.00	63	FM			
062302	MTR CNTL ASSY AFT =2	7.83	20.70	64	F5			
062303	MTR CNTL ASSY AFT =3	14.10	30.60	65	F6			
062401	LOAD CNTL ASSY FWD1	20.44	26.01	32	W1			
062402	LOAD CNTL ASSY FWD2	23.38	29.83	33	W2			
062403	LOAD CNTL ASSY FWD3	29.88	38.09	34	W3			
062501	LOAD CNTL ASSY AFT1	99.30	38.74	84	F4			
062502	LOAD CNTL ASSY AFT2	92.76	38.62	85	F5			
062503	LOAD CNTL ASSY AFT3	92.42	44.41	86	F6			

Figure 6.4-2. - Continued

062601	PCA FWD =1	60.90	20.69	22	W1
062602	PCA FWD =2	50.77	21.57	23	W2
062603	PCA FWD =3	44.72	17.28	24	W3
062701	PCA MID =1	34.84	41.48	48	FM
062702	PCA MID =2	30.11	32.06	49	FM
062703	PCA MID =3	31.48	26.71	50	FM
062801	PCA AFT =1	19.59	40.34	72	F5
062802	PCA AFT =2	22.83	24.98	73	F6
062803	PCA AFT =3	32.53	29.11	74	F6
062804	PCA AFT =4	42.75	41.38	61	F5
062805	PCA AFT =5	10.19	54.42	62	F6
062806	PCA AFT =6	313.00	12.98	31	A1
070101	GPC CPU#1-RUN	313.00		31	A2
070102	GPC CPU#2-RUN	313.00	*	31	A3
070103	GPC CPU#3-RUN	313.00	*	31	A1
070104	GPC CPU#4-RUN	313.00	*	31	A2
070105	GPC CPU#5-RUN	340.00		31	A1
070201	GPC IOP#1-RUN	340.00		31	A2
070202	GPC IOP#2-RUN	340.00	*	31	A3
070203	GPC IOP#3-RUN	340.00	*	31	A1
070204	GPC IOP#4-RUN	340.00	*	31	A2
070205	GPC IOP#5-RUN	58.90		28	W1
070301	MDM FF1	60.00		29	W2
070302	MDM FF2	55.50		30	W3
070303	MDM FF3	58.60		29	W1
070304	MDM FF4	54.80		66	F4
070401	MDM FA1	54.20		67	F5
070402	MDM FA2	55.60		68	F6
070403	MDM FA3	64.20		64	F6
070404	MDM FA4	18.05	*	22	W1
070901	MM =1 TAPE OPER	18.05	*	23	W2
070902	MM =2 TAPE OPER	46.80		19	W1
071001	MDM OFI 1	46.80		19	W2
071002	MDM OFI 2	47.40		21	W3
071003	MDM OFI 3	40.40		21	MC
071004	MDM OFI 4 FLT DECK	41.30		66	F4
071101	MDM OAI 1	42.10		67	F5
071102	MDM OAI 2	42.70		68	F6
071103	MDM OAI 3	54.40		28	W1
071401	MDM PL 1	56.90		29	W2
071402	MDM PL 2	48.30		66	F4
071501	ENG INTRFC LN =1	49.30		67	F5
071502	ENG INTRFC UN =2	49.30		68	F6
071503	ENG INTRFC UN =3	13.78	*	78	F4
071602	DBIA#1 SRB-HI RATE	13.78	*	78	F5
071604	DBIA#2 SRB-HI RATE	6.40		31	A1
075001	GPC CNTLR 1 PS A	6.40		31	A1
075002	GPC CNTLR 1 PS B	6.40		31	A2
075003	GPC CNTLR 2 PS A	6.40		31	A2
075004	GPC CNTLR 2 PS B	6.40		31	A2
075005	GPC CNTLR 3 PS A	1.23		31	A2
075006	GPC CNTLR 3 PS B	52.00		91	OT
160101	MDM =1 LH SRB	52.00		91	OT
160102	MDM =2 LH SRB	52.00		94	OT
160103	MDM =1 RH SRB	52.00		94	OT
160104	MDM =2 RH SRB	52.00		102	OT
160301	RGA =1 LH SRB (RUN)	16.71			

Figure 6.4-2. - Continued

160302	PGA =2 LH SRB (RUN)	16.70	103	OT			
160303	PGA =3 LH SRB (RUN)	16.70	104	OT			
160304	PGA =1 RH SRB (RUN)	16.70	105	OT			
160305	PGA =2 RH SRB (RUN)	16.70	97	OT			
160306	PGA =3 RH SRB (RUN)	16.79	91	OT			
160501	SIG COND =1 LH SRB	12.83	91	OT			
160502	SIG COND =2 LH SRB	12.83	91	OT			
160503	SIG COND =1 RH SRB	12.82	94	OT			
160504	SIG COND =2 RH SRB	12.82	94	OT			
161201	CMRR PR XDCR=A LHSRB	.96	90	OT			
161202	CMRR PR XDCR=B LHSRB	.96	92	OT			
161203	CMRR PR XDCR=C LHSRB	.87	96	OT			
161204	CMRR PR XDCR=A RHSRB	.96	93	OT			
161205	CMRR PR XDCR=B RHSRB	.96	95	OT			
161206	CMRR PR XDCR=C RHSRB	.87	97	OT			
161801	APU CNTL ASY A-LSRB	10.36	102	OT			
161802	APU CNTL ASY B-LSRB	10.35	103	OT			
161803	APU CNTL ASY A-RSRB	10.35	104	OT			
161804	APU CNTL ASY B-RSRB	10.35	105	OT			
162001	HPU SENSOR A-LHSRB	1.93	90	OT			
162002	HPU SENSOR B-LHSRB	1.93	92	OT			
162003	HPU SENSOR A-RHSRB	1.93	93	OT			
162004	HPU SENSOR B-RHSRB	1.93	95	OT			
162201	FSM ISOL VLV A-L SRB	22.44	102	OT			
162202	FSM ISOL VLV B-L SRB	22.43	103	OT			
162203	FSM ISOL VLV A-R SRB	22.43	104	OT			
162204	FSM ISOL VLV B-R SRB	22.43	105	OT			
162301	FUEL S/OFF V A-L SRB	36.25	102	OT			
162302	FUEL S/OFF V B-L SRB	36.23	103	OT			
162303	FUEL S/OFF V A-R SRB	36.23	104	OT			
162304	FUEL S/OFF V B-R SRB	36.23	105	OT			
162401	FUEL CNTL VL A-L SRB	36.25	102	OT			
162402	FUEL CNTL VL B-L SRB	36.23	103	OT			
162403	FUEL CNTL VL A-R SRB	36.23	104	OT			
162404	FUEL CNTL VL B-R SRB	36.23	105	OT			
200101	MN ENG CNTLR 1 CH A	557.18	201	OT	480.00		
200102	MN ENG CNTLR 1 CH B	372.79	202	OT		330.00	
200103	MN ENG CNTLR 2 CH A	549.14	202	OT		480.00	
200104	MN ENG CNTLR 2 CH B	376.97	203	OT			330.00
200105	MN ENG CNTLR 3 CH A	555.30	203	OT			480.00
200106	MN ENG CNTLR 3 CH B	378.24	201	OT	330.00		
200301	LOX PREVLV 1 OP SOL	33.04	70	OT			
200303	LOX PREVLV 2 OP SOL	33.11	71	OT			
200305	LOX PREVLV 3 OP SOL	33.04	69	OT			
200401	LH2 PREVLV 1 OP SOL	33.11	70	OT			
200403	LH2 PREVLV 2 OP SOL	33.04	71	OT			
200405	LH2 PREVLV 3 OP SOL	33.04	69	OT			
200501	L02 OB F+D VL CL SOL	34.86	86	OT			
200601	L02 TB F+D VL CL SOL	34.87	85	OT			
200701	LH2 OB F+D VL CL SOL	34.87	84	OT			
200801	LH2 TB F+D VL CL SOL	34.89	79	OT			
201101	L02 FD DSC VL OP SOL	35.13	79	OT			
201201	LH2 FD DSC VL OP SOL	35.13	79	OT			
201301	LH2 HC DSC VL OP SOL	36.84	84	OT			
201400	L02 REL F S/V CL SOL	36.23	46	OT			
201500	LH2 REL F S/V CL SOL	36.23	46	OT			
202101	ENG 1 HE SPY ISO VLA	36.89	84	OT			

Figure 6.4-2. - Continued

202102	ENG 1 HE SPY ISO VLB	35.15		67	OT
202103	ENG 2 HE SPY ISO VLA	34.87		85	OT
202104	ENG 2 HE SPY ISO VLB	35.15		68	OT
202105	ENG 3 HE SPY ISO VLA	34.86		86	OT
202106	ENG 3 HE SPY ISO VLB	35.16		66	OT
202201	PNEU HE SPY ISO VL 1	34.89		84	OT
202202	PNEU HE SPY ISO VL 2	34.87		85	OT
202401	GO2 FLOW CNIL VLV =1	49.01	43.70	84	OT
202402	GO2 FLOW CNIL VLV =2	48.98	43.70	85	OT
202403	GO2 FLOW CNIL VLV =3	48.97	43.70	86	OT
202501	GH2 FLOW CNIL VLV =1	36.67	32.70	84	OT
202502	GH2 FLOW CNIL VLV =2	36.65	32.70	85	OT
202503	GH2 FLOW CNIL VLV =3	36.64	32.70	86	OT
202701	ULL PRES STG COND =1	10.24		84	F4
202702	ULL PRES STG COND =2	10.09		82	F5
202703	ULL PRES STG COND =3	10.09		83	F6
202801	POINT SNSR ELEC-BUS1	26.97		84	OT
202802	POINT SNSR ELEC-BUS2	26.96		85	OT
202803	POINT SNSR ELEC-BUS3	27.16		79	OT
202804	POINT SNSR ELEC-BUS4	26.95		86	OT
203300	LO2 OVBD BL VL CL SL	35.13		79	OT
203701	ENG 1 FASCOS SYS A	21.22		63	OT
203702	ENG 1 FASCOS SYS B	21.21		64	OT
203703	ENG 1 FASCOS SYS C	21.20		65	OT
203704	ENG 2 FASCOS SYS A	21.22		63	OT
203705	ENG 2 FASCOS SYS B	21.21		64	OT
203706	ENG 2 FASCOS SYS C	21.20		65	OT
203707	ENG 3 FASCOS SYS A	21.22		63	OT
203708	ENG 3 FASCOS SYS B	21.21		64	OT
203709	ENG 3 FASCOS SYS C	21.20		65	OT
210701	LP ACT GMBL INST/LOG	6.50		72	OT
210702	LP STB GMBL INST/LOG	6.54		73	OT
210703	RP ACT GMBL INST/LOG	6.54		74	OT
210704	RP STB GMBL INST/LOG	6.50		72	OT
211501	BIPROP VL1 LP POS ID	1.30		72	OT
211502	BIPROP VL2 LP POS ID	1.31		73	OT
211503	BIPROP VL1 RP POS ID	1.30		72	OT
211504	BIPROP VL2 RP POS ID	1.31		74	OT
212106	TK ISO/XFD VL TLKBC	8.28		72	AC
212401	QUAN GAGE TOT-LP-OPR	8.50		78	OT
212402	QUAN GAGE TOT-RP-OPR	8.50		80	OT
212501	ENG PRESU V COIL 1LP	29.37		84	OT
212502	ENG PRESU V COIL 2LP	29.36		85	OT
212601	ENG PRESU V COIL 1RP	29.35		86	OT
212602	ENG PRESU V COIL 2RP	29.37		84	OT
217001	XFD OX/FU FLXL HTA-L	28.40	80.00	72	OT
217003	XFD OX/FU FLXL HTA-R	28.40	80.00	72	OT
217101	XFD OX/FU LNE HT-A-L	37.14	60.00	72	OT
217103	XFD OX/FU LNE HT-A-R	37.14	60.00	72	OT
217105	XFD OX/FU LNE HT-A-C	72.24	80.00	72	OT
217201	FU HIPT BLDLN HT-A-A	12.08	80.00	72	OT
217301	OX HIPT BLDLN HT-A-A	12.08		72	OT
217401	LOPT OX/FU DRLN HTA-L	7.90		72	OT
217403	LOPT OX/FU DRLN HTA-R	7.90		72	OT
300201	FCP =1 02 FLOWMETER	5.81		47	OT
300202	FCP =2 02 FLOWMETER	5.95		48	OT
300203	FCP =3 02 FLOWMETER	5.97		49	OT

Figure 6.4-2. - Continued

300301	FCP #1 H2 FLOWMETER	5.81		47	OT			
300302	FCP #2 H2 FLOWMETER	5.81		48	OT			
300303	FCP #3 H2 FLOWMETER	5.97		49	OT			
300401	FCP1 EL CTL-ORBT	4.56		38	OT			
300402	FCP2 EL CTL-ORBT	4.55		39	OT			
300403	FCP3 EL CTL-ORBT	4.60		40	OT			
300501	FCP1 PMP-H2O SENSOR	239.45		201	OT	180.50		
300502	FCP2 PMP-H2O SENSOR	236.39		202	OT		180.80	
300503	FCP3 PMP-H2O SENSOR	242.61		203	OT			183.50
310301	O2 TNK1 SIG COND QTY	2.14		42	OT			
310302	H2 TNK1 SIG COND QTY	2.14		41	OT			
310303	O2 TNK2 SIG COND QTY	2.14		41	OT			
310304	H2 TNK2 SIG COND QTY	2.33		41	OT			
320201	APU 1 FU ISO VLV 1	30.27		63	OT			
320202	APU 1 FU ISO VLV 2	30.25		64	OT			
320203	APU 2 FU ISO VLV 1	30.25		65	OT			
320204	APU 2 FU ISO VLV 2	30.24		65	OT			
320205	APU 3 FU ISO VLV 1	30.24		63	OT			
320206	APU 3 FU ISO VLV 2	30.27		66	F4			
320301	APU1 CNTRLR-OPERATE	18.84	*	67	F5			
320302	APU2 CNTRLR-OPERATE	18.83	*	68	F6			
320303	APU3 CNTRLR-OPERATE	18.83	*	66	OT			
320401	APU 1 SHUTOFF VLV	33.46		67	OT			
320402	APU 2 SHUTOFF VLV	33.44		68	OT			
320403	APU 3 SHUTOFF VLV	33.45		66	OT			
320501	APU 1 MODULATING VLV	16.72	50.00	67	OT			
320502	APU 2 MODULATING VLV	16.72	50.00	68	OT			
320503	APU 3 MODULATING VLV	16.72	50.00	85	OT			
325202	FUEL FEEDLINE HTR 1B	30.46	45.00	86	OT			
325204	FUEL FEEDLINE HTR 2B	34.45	45.00	84	OT			
325206	FUEL FEEDLINE HTR 3B	21.46	45.00	85	OT			
325302	FUEL SERVLN HTR 1B	32.25	50.00	86	OT			
325304	FUEL SERVLN HTR 2B	23.85	50.00	84	OT			
325306	FUEL SERVLN HTR 3B	32.25	50.00	75	OT			
325601	APU 1 PRI H2O HTR 1A	16.98	60.00	76	OT			
325603	APU 2 PRI H2O HTR 1A	4.92	60.00	77	OT			
325605	APU 3 PRI H2O HTR 1A	16.08	60.00	75	OT			
325601	APU 1 SEC H2O HTR 2A	18.06	60.00	76	OT			
325903	APU 2 SEC H2O HTR 2A	8.22	60.00	77	OT			
325905	APU 3 SEC H2O HTR 2A	8.22	60.00	75	OT			
326301	CG H2O TK LN HT 504A	7.50	60.00	77	OT			
326303	CG H2O TK LN HT 503A	13.62	60.00	203	HX			494.00
400101	CABIN FAN A	653.14		214	AC			
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC			
400301	CAB AIR THP CN EL-PR	5.23		212	AC			
400400	CAB AIR SIGNAL COND	4.90		202	AC	3.708		
400502	ARS HUMIDITY SEP B	37.26		217	AC		28.50	
400600	ARS HUM SEP SIG CND	2.37		16	AC			1.80A
400701	PRO2 CNTRLR-SYS 1	.69		17	AC			
400702	PRO2 CNTRLR-SYS 2	.69		16	AC			
400711	O2 CONTROL VLV-SYS 1	4.60	50.00	17	AC			
400712	O2 CONTROL VLV-SYS 2	4.61	50.00	17	AC			
400711	CABIN PRESS SENSOR	.69		17	AC			
400712	CAB PRESS-DECAY SENS	1.96		16	AC			
400751	O2 FLOW SENSOR-SYS 1	.98		17	AC			
400752	O2 FLOW SENSOR-SYS 2	.98		16	AC			
400753	H2 FLOW SENSOR-SYS 1	.98		16	AC			

Figure 6.4-2. - Continued

400754	N2 FLOW SENSOR-SYS 2	.28	17	AC			
400761	PP02 SENSOR-SYS 1	.78	17	AC			
400762	PP02 SENSOR-SYS 2	.78	17	AC			
400763	PP02 SENSOR-SYS 3	.78	17	AC			
400802	AVION FAN-BAY 1 (B)	219.65	202	A1	168.00		
400803	AVION FAN-BAY 2 (A)	213.12	201	A2	163.00		
400806	AVION FAN-BAY 3 (B)	222.87	201	A3	168.00	2,408	
400901	AVION BAY 1 SIG COND	3.16	218	AC			
400902	AVION BAY 2 SIG COND	2.29	212	AC	1,808	2,508	
400903	AVION BAY 3 SIG COND	3.27	215	AC			
401001	SMOKE DT SNR-L FLT D	6.36	16	OT			
401002	SMOKE DT SNR-R FLT D	6.36	16	OT			
401003	S D SNRSR A - BAY 1	6.40	18	OT			
401004	S D SNRSR B - BAY 1	6.40	17	OT			
401005	S D SNRSR A - BAY 2	6.36	16	OT			
401006	S D SNRSR B - BAY 2	6.40	18	OT			
401007	S D SNRSR A - BAY 3	6.37	17	OT			
401008	S D SNRSR B - BAY 3	6.40	18	OT			
401009	S D SNRSR - CABIN	6.40	18	OT			
401102	IMU FAN B	6.36	202	WC	48.60		
401200	IMU FAN SIG COND	2.37	218	AC		1,808	
401303	H2O PUMP - LOOP 2	251.69	203	WC		191.80	
401501	H2O BYPASS CN SC-PRI	7.76	217	AC		5,90A	
401502	H2O BYPASS CN SC-SEC	7.85	211	AC	5.90A		
402901	FREON PHP LP 1-A ASC	496.15	201	FP	374.00		
402903	FREON PHP LP 2-A ASC	494.48	203	FP		374.00	
403601	FREON COOL LP1 INSTR	6.54	215	OT		5.008	
403602	FREON COOL LP2 INSTR	6.59	218	OT		5.008	
500801	RESVOIR -1 VOL SNRSR	1.86	212	OT	1.408		
500802	RESVOIR -2 VOL SNRSR	1.87	216	OT		1.408	
500803	RESVOIR -3 VOL SNRSR	1.85	218	OT		1,408	
501601	RUD/SPBK SW VL ACT 1	1.26	213	OT	1,00C		
501602	RUD/SPBK SW VL PS2	1.26	216	OT		1,00C	
501901	ME 1 PITCH-SW-V ACTV	1.26	216	OT		1,00C	
501902	ME 1 YAW-SW-V ACTV	1.26	216	OT		1,00C	
501903	ME 2 PITCH-SW-V ACTV	1.26	216	OT		1,00C	
501904	ME 2 YAW-SW-V ACTV	1.26	216	OT		1,00C	
501905	ME 3 PITCH-SW-V ACTV	1.26	216	OT		1,00C	
501906	ME 3 YAW-SW-V ACTV	1.26	216	OT		1,00C	
502001	ELV ACT SW V ACT-LO	1.26	213	OT	1,00C		
502002	ELV ACT SW V PS2-LO	1.26	216	OT		1,00C	
502003	ELV ACT SW V ACT-LI	1.26	213	OT	1,00C		
502004	ELV ACT SW V PS2-LI	1.26	216	OT		1,00C	
502005	ELV ACT SW V ACT-RI	1.26	213	OT	1,00C		
502006	ELV ACT SW V PS2-RI	1.26	216	OT		1,00C	
502007	ELV ACT SW V ACT-RO	1.26	213	OT	1,00C		
502008	ELV ACT SW V PS2-RO	1.26	216	OT		1,00C	
503701	H2O BLR1 CNT LOGIC A	4.73	217	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.97	213	OT	3,00C		
503705	H2O BLR3 CNT LOGIC A	3.70	214	OT		2,90A	
503601	H2O BOILR 1 CNTL A	.74	65	OT			
503603	H2O BOILR 2 CNTL A	.65	63	OT			
503605	H2O BOILR 3 CNTL A	.74	64	OT			
505301	WSR TK/BOILER HTR-1A	7.94	65	OT			
505303	WSR TK/BOILER HTR 2A	7.73	63	OT			
505305	WSR TK/BOILER HTR 3A	7.94	64	OT			
505401	WSR VENT NOZZ HTR 1A	26.20	35.60	65			

Figure 6.4-2. - Continued

505403	WSB VENT NOZZ HTR 2A	21.89	35.60	63	01
505404	WSB VENT NOZZ HTR 3A	21.00	35.60	64	01
522701	BRW/SKID CNL BOX A	16.87		30	A1
522702	BRW/SKID CNL BOX B	16.87		29	A2
600301	ESCAPE SUIT VT ASY L	92.34		11	AC
600302	ESCAPE SUIT VT ASY R	91.39		10	AC
			TOTAL INVERTER WATTS =	3029.55	2343.73 - 2909.44
			TOTAL 3 PHASE WATTS =	1768.60	1401.00 - 2055.40
			TOTAL A PHASE WATTS =	250.60	163.80 - 20.80
			TOTAL B PHASE WATTS =	201.40	175.60 - 48.80
			TOTAL C PHASE WATTS =	168.00	171.00 - 160.00

Figure 6.4-2. - Concluded

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TOTAL WATTS - 25356.52

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 000:00:00.0

ORIGINAL PAGE IS
OF POOR QUALITY

Figure 6.4-3.- Vehicle configuration at 16 minutes MET (MM105)

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 000:16:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-3. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	118.58			28	MC			
010102	IMU =2 OPERATE	118.59	*		29	MC			
010103	IMU =3 OPERATE	118.59	*		30	MC			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.88			18	A1			
010404	ADTA =4	64.00			18	A2			
010801	ATVC =1 PWR SUP-OPER	38.90	*		66	F4			
010802	ATVC =2 PWR SUP-OPER	38.90	*		67	F5			
010803	ATVC =3 PWR SUP-OPER	38.90	*		68	F6			
010804	ATVC =4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC =1 ISO VLV DRVR	.77			65	F4			
010812	ATVC =2 ISO VLV DRVR	.77			63	F5			
010813	ATVC =3 ISO VLV DRVR	.77			64	F6			
010814	ATVC =4 ISO VLV DRVR	.77			76	F6			
010821	ATVC =1 ACTS-OPER	3.30	*		66	OT			
010822	ATVC =2 ACTS-OPER	3.30	*		67	OT			
010823	ATVC =3 ACTS-OPER	3.30	*		68	OT			
010824	ATVC =4 ACTS-OPER	3.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	.40	*		68	F4			
011002	ASA =2 IVD/BF-OPER	.40	*		66	F5			
011003	ASA =3 IVD/BF-OPER	.40	*		67	F6			
011004	ASA =4 IVD-OPER	.40	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	15.89	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	15.89	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	15.89	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	15.88	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	RGA =1 OPR	24.43	*		78	FA			
011302	RGA =2 OPR	24.72	*		64	FA			
011303	RGA =3 OPR	24.77	*		69	FA			
011304	RGA =4 OPR	24.49	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	RHC-LH	3.05			19	AC			
011701	RHC-LH	4.63			19	AC			
011801	RPTA-LH	1.18			19	AC			
011802	RPTA-RH	1.19			20	AC			
011901	SBTC-LH	1.58			19	AC			

Figure 6.4-3. - Continued

011902	SBTC-RH	1.58		20	AC				
020802	NTM SIG PROCESSOR 2	27.87		14	W3				
021101	S-BAND FM XMITR =1	10.24		33	W3				
021200	S-BND FM SIG PRO-DRB	.73	15.00	36	A3				
021302	S-BND XPDR=2-DIRECT	57.39	*	34	W3				
021401	S-BND PWR AMP 1-SBY	20.23		27	W3				
021402	S-BND PWR AMP 2-OPR	383.15	*	24	W3				
021501	S-BD PREAMP 1-SBY	12.55		33	W3				
021502	S-BD PREAMP 2-OPR	18.38		38	W3				
021600	S-BND ANT SW ASV-QES	.54	*	11	A1	160.00C			
021701	TACAN =1 SEARCH	209.15	*	213	A2		160.00C		
021702	TACAN =2 SEARCH	209.15	*	216	A3			160.00C	
021703	TACAN =3 SEARCH	209.49	*	219	W1			160.00C	
022101	PARAR ALTIMETER =1	22.84		16	W2				
022102	RADAR ALTIMETER =2	22.92		17	AC				
022201	UMF XCVR-XMT/REC	35.73	*	10	W1				
024101	AUDIO CENTER 1	37.76		42	AC				
024201	AUDIO TERM UN-PLT RT	3.30		42	AC				
024202	AUDIO TERM UN-CDR LT	3.32		41	AC				
024203	AUDIO TERM UNIT-MSS	3.37		10	AC				
024204	AUDIO TERM UNIT-PS	3.51		15	AC				
024601	AUDIO INTF UNIT-PLT	.66		42	AC				
024602	AUDIO INTF UNIT-CDR	.66		41	AC				
024910	MULTIPLE HDSET ADPTR	.66		41	AC				
030101	ADI =1 FWD LH	16.83		19	AC				
030102	ADI =2 FWD RH	16.90		20	AC				
030201	HSI =1	26.52		16	AC				
030202	HSI =2	26.60		17	AC				
030301	AMT =1	6.95		16	AC				
030302	AMT =2	6.97		17	AC				
030401	ALPHA MACH EL UNIT 1	31.18		16	HX				
030402	ALPHA MACH EL UNIT 2	31.28		17	HX				
030501	AVVI =1	6.95		16	AC				
030502	AVVI =2	6.97		17	AC				
030601	ALT VER VEL EL UN =1	24.43		16	HX				
030602	ALT VER VEL EL UN =2	24.51		17	HX				
030701	TAPE MTR M1 (MPS PRI)	8.94		16	AC				
030702	TAPE MTR M2 (MPS PRI)	8.96		16	AC				
030703	TAPE MTR M3 (MPS PRI)	11.92		16	AC				
030704	TAPE MTR M1 (HYD PRI)	8.97		17	AC				
030705	TAPE MTR M2 (HYD QTY)	8.97		17	AC				
030706	TAPE MTR M3 (APU)	8.97		17	AC				
030707	TAPE MTR M4 (APU OIL)	5.98		17	AC				
030708	SPT	17.40		16	AC				
031300	OMS/RCS PROP QTY IND	4.80		18	AC				
031400	C-W PWR SUP A-STBY	28.29		41	A3				
031501	C-W PWR SUP R-STBY	12.84		42	A3				
031502	MISSION TIMER =1 FWD	3.48		16	AC				
031701	MISSION TIMER =2 AFT	3.59		17	AC				
031801	EVENT TIMER =1 FWD	2.99		17	AC				
031802	EVENT TIMER =2 AFT	2.98		16	AC				
032201	DDU =1 FWD LH	120.00		19	HX				
032202	DDU =2 FWD RH	120.00		20	HX				
032301	CRT DU =1 - LF	83.91		22	HX				
032702	CRT DU =2 - RF	83.92		23	HX				
032703	CRT DU =3 - CF	83.80		24	HX				
032801	DEU =1	202.00		22	HX				

Figure 6.4-3. - Continued

032802	DEU =2	202.00		23	HX			
032803	DEU =1	202.00		24	HX			
033101	PANEL LTS - LEFT/CTR	255.31		211	AC	195.00A		
033102	PANEL LTS - LEFT/OVHD	231.37		212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	173.86		215	AC		133.00B	
033104	PANEL LTS - RHT/OVHD	172.55		218	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	75.56		218	AC			57.80B
033202	INSTR LTS - OVERHEAD	35.95		215	AC		27.50B	
033203	INSTR LTS - RIGHT	65.07		211	AC			
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	49.70A		
034202	GLARSHLD FLDLT-LEFT	31.29	*	41	AC	17.50B		
034203	GLARSHLD FLDLT-RGHT	31.15	*	42	AC			
034204	LRFT OVERHEAD FLDLT A	22.42		17	AC			
034205	RHT OVERHEAD FLDLT A	22.53		18	AC			
034206	CONSOLE FLDLT-CMDIL I	16.39		16	AC			
034207	CONSOLE FLDLT-PLY	16.44		17	AC			
035600	C-W ANNUN ASSY-OPR	7.59	*	41	AC			
037200	CICU - OPR	6.64	*	43	AI			
037301	ACA =1	32.78		16	AC			
037302	ACA =2/3	66.39		17	AC			
037303	ACA =4/5	54.58		18	AC			
037401	ANNUN 1	12.33		16	AC			
037402	ANNUN 2/3	23.01		17	AC			
037403	ANNUN 4/5	19.35		18	AC			
040301	PCM MASTER UNIT =1	55.00		30	W1			
040401	OPS-1 RECORDER-REPLY	15.44	*	28	W2			
040402	OPS-2 RECORDER-REPLY	50.89	*	29	W2			
040403	PAYLD RECORDER-REPLY	50.89	*	30	W1			
040501	DED SIG CND OF1- FWD	22.80		19	W1			
040502	DED SIG CND OF2- FWD	32.60		20	W2			
040503	DED SIG CND OF3- FWD	26.80		20	W3			
040601	DED SIG CND OA1- AFT	36.20		66	F4			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPR	29.29		43	W4			
041201	DSC DL1 OMS/RCS	23.30		78	OT			
041202	DSC DL2 OMS/RCS	21.40		80	OT			
041203	DSC DR1 OMS/RCS	23.30		78	OT			
041204	DSC DR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OFA FWD RCS	26.90		19	OT			
041601	WDRND S/C =1 (BAY4)	.38		63	OT			
041602	WDRND S/C =2 (BAY4)	.38		63	OT			
041603	WDRND S/C =3 (BAY4)	.38		63	OT			
041604	WDRND S/C =4 (BAY4)	.38		63	OT			
041701	WDRND S/C =1 (BAY5)	.36		64	OT			
041702	WDRND S/C =2 (BAY5)	.38		64	OT			
050100	PLR DIST ASSY FWD	9.97		12	DW			
050201	PLR DIST ASSY =1 MID	9.35		44	D1			
050202	PLR DIST ASSY =2 MID	9.35		44	D2			
050203	PLR DIST ASSY =3 MID	9.35		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FLD =1-SDF1	22.20		12	DW			
050402	DSC FWD =2-SDF2	22.20		12	DW			
050403	DSC FWD =3-SDF3	22.50		12	DW			
050501	DSC UNIT #1 - SDF1	16.60		94	D1			

Figure 6.4-3. - Continued

050502	DSC UNIT #2 - SDL2	24.70	44	D1
050503	DSC UNIT #3 - SDL3	16.60	44	D1
050504	DSC UNIT #4 - SDL4	24.70	44	D1
050505	DSC UNIT #5 - SDL5	46.70	44	D1
050506	DSC UNIT #1 - SDR1	16.60	44	D2
050507	DSC UNIT #2 - SDR2	24.70	44	D2
050508	DSC UNIT #3 - SDR3	16.60	44	D2
050509	DSC UNIT #4 - SDR4	46.80	44	D2
050601	DSC UNIT #1 - SOC1	16.60	44	D3
050602	DSC UNIT #2 - SOC2	23.90	44	D3
050603	DSC UNIT #3 - SOC3	16.60	44	D3
050604	DSC UNIT #4 - SOC4	17.70	44	D3
050605	DSC UNIT #5 - SOC5	16.60	44	D3
050701	WB FDM 1A (FMF1)-FWD	24.93	12	DW
050702	WB FDM 1B (FMF1)-FWD	24.93	12	DW
050703	WB FDM 2A (FMF2)-FWD	24.93	12	DW
050704	WB FDM 2B (FMF2)-FWD	24.93	12	DW
050705	WB FDM 3A (FMF3)-FWD	24.93	12	DW
050706	WB FDM 3B (FMF3)-FWD	24.93	12	DW
050801	WDRND FDM UN1-MID L1	23.45	47	D1
050802	WDRND FDM UN1-MID L1	24.06	47	D1
050803	WDRND FDM UN2-MID L1	23.45	47	D1
050804	WDRND FDM UN2-MID L1	24.06	47	D3
050805	WDRND FDM UN1-MID R2	23.45	47	D3
050806	WDRND FDM UN1-MID R2	24.06	47	D3
050807	WDRND FDM UN2-MID R2	23.45	47	D3
050808	WDRND FDM UN2-MID R2	24.06	47	D3
050811	WDRND FDM UN1-MID L3	23.45	47	D3
050812	WDRND FDM UN1-MID L3	23.45	47	D3
050813	WDRND FDM UN2-MID L3	23.45	47	D3
050820	FREON FLOMTR-MID LT3	1.88	47	D3
050831	LOAD SEN ACCEL-1 FWD	3.49	12	DW
050832	LOAD SEN ACCEL-2 FWD	3.49	12	DW
050833	LOAD SEN ACCEL-MR 2	11.13	47	D2
050834	LOAD SEN ACCEL-MR 3	10.11	47	D2
050901	WDRND RCOR(ASC)-RECD	69.80	12	AC
050910	WDRND RCOR (MARS)	58.64	12	DW
050910	PCM-RCOR-RECD-SERIAL	55.84	12	DW
051011	WBSC FWD (A131)-ASC	2.79	12	DW
051012	WBSC FWD (A131)-ASC	4.89	12	DW
051020	WBSC FWD (A132)-WBM	5.58	12	DW
051031	WBSC FWD (A133)-ASC	7.40	12	DW
051032	WBSC FWD (A133)-WBM	7.68	12	DW
051041	WBSC FWD (A134)-WBM	9.47	12	DW
051111	WBSC LM1 (A135)-WBM	2.69	47	D1
051112	WBSC LM1 (A135)-WBM	3.28	47	D1
051121	WBSC LM1 (A136)-WBM	3.37	47	D1
051122	WBSC LM1 (A136)-WBM	3.66	47	D1
051131	WBSC LM1 (A137)-WBM	5.10	47	D1
051132	WBSC LM1 (A137)-WBM	4.31	47	D1
051141	WBSC LM1 (A138)-WBM	3.75	47	D1
051142	WBSC LM1 (A138)-WBM	4.97	47	D1
051211	WBSC RM2 (A139)-WBM	2.69	47	D2
051212	WBSC RM2 (A139)-WBM	3.00	47	D2
051221	WBSC RM2 (A140)-WBM	3.08	47	D2
051222	WBSC RM2 (A141)-WBM	2.63	47	D2
051231	WBSC RM2 (A141)-WBM	4.72	47	D2

Figure 6.4-3. - Continued

051232	WBSC RM2 (A1411)-WBH	4.31	47	D2
051241	WBSC RM2 (A1421)-WBH	3.08	48	D2
051242	WBSC RM2 (A1421)-WBH	5.25	47	D2
051311	WBSC LM3 (A1431)-ASCT	8.25	47	D3
051321	WBSC LM3 (A1441)-ASCT	2.34	47	D3
051322	WBSC LM3 (A1441)-WBH	6.67	47	D3
051331	WBSC LM3 (A1451)-ASCT	3.66	47	D3
051332	WBSC LM3 (A1451)-100%	2.63	47	D3
051333	WBSC LM3 (A1451)-100%	4.08	48	D3
051343	WBSC LM3 (A1461)-ASCT	9.19	47	D3
051401	DC-DC XDUCERS-FWD	15.19	47	OT
051402	DC-DC XDUCERS-FWD	5.36	12	OT
051403	DC-DC XDUCERS-FWD	5.82	47	OT
051404	DC-DC XDUCERS-MID L1	28.70	47	OT
051405	DC-DC XDUCERS-MID L1	7.69	47	OT
051406	DC-DC XDUCERS-MID L1	5.20	48	OT
051407	DC-DC XDUCERS-MID R2	27.01	47	OT
051408	DC-DC XDUCERS-MID R2	1.68	47	OT
051409	DC-DC XDUCERS-MID R2	3.46	48	OT
051411	DC-DC XDUCERS-MID L3	.75	47	OT
051412	DC-DC XDUCERS-MID L3	37.14	47	OT
051501	SGSC FWD (A1611)-100%	23.04	12	DW
051502	SGSC FWD (A1611)-100%	16.35	12	DW
051503	SGSC FWD (A1611)-WBH	5.48	12	DW
051504	SGSC FWD (A1611)-WBH	15.36	12	DW
051611	SGSC ML1 (A1621)-100%	87.04	47	D1
051612	SGSC ML1 (A1621)-WBH	14.44	47	D1
051613	SGSC ML1 (A1621)-WBH	14.82	48	D1
051621	SGSC ML1 (A1631)-100%	61.43	47	D1
051622	SGSC ML1 (A1631)-WBH	29.64	48	D1
051623	SGSC ML1 (A1631)-WBH	7.22	47	D1
051624	SGSC ML1 (A1631)-100%	7.41	48	D1
051625	SGSC ML1 (A1631)-100%	28.89	47	D1
051631	SGSC ML1 (A1641)-100%	110.30	48	D2
051632	SGSC HR2 (A1641)-100%	22.23	48	D2
051641	SGSC HR2 (A1651)-100%	99.81	48	D2
051642	SGSC HR2 (A1651)-100%	37.05	48	D2
051651	SGSC HR2 (A1691)-100%	48.33	48	D2
051652	SGSC HR2 (A1691)-WBH	29.64	48	D2
051653	SGSC HR2 (A1691)-WBH	21.67	47	D2
051654	SGSC HR2 (A1691)-100%	29.64	48	D2
051661	SGSC ML3 (A1661)-100%	73.53	48	D1
051662	SGSC ML3 (A1661)-WBH	28.89	47	D3
051671	SGSC ML3 (A1671)-100%	57.75	48	D3
051672	SGSC ML3 (A1671)-WBH	43.33	47	D3
051673	SGSC ML3 (A1671)-100%	22.23	48	D3
051700	MDM DF1 - FWD	53.90	12	DW
051801	MDM DL1 - MID LEFT 1	50.00	44	D1
051802	MDM DL2 - MID LEFT 1	50.20	44	D1
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2
051804	MDM DR2 - MID RIGHT 2	52.80	44	D2
051805	MDM OC1 - MID LEFT 3	49.10	44	D3
051806	MDM OC2 - MID LEFT 3	52.50	44	D3
051900	S-BAND FM XMITR-DFI	119.66	12	DW
052200	APS DFI SIGNAL COND	8.10	215	OT
052300	ATCS DFI SIGNAL CGND	1.96	217	OT
052401	DFI FREQN PUMP #1	306.06	201	D1

234.00 6.206 1.50A

Figure 6.4-3. - Continued

052500	3-AXIS ACCEL	1.70		12	OT		
060301	MEC-1-AVERAGE	84.00	*	78	F4		
060302	MEC-2-AVERAGE	84.00	*	79	F5		
060501	GRND CMOS INTFC UN A	27.05		33	W3		
061001	INV DIST-CTL ASY1-DC	.57		41	A1		
061002	INV DIST-CTL ASY1-AC	2.75		201	A1	2.10	
061003	INV DIST-CTL ASY2-DC	.57		42	A2		
061004	INV DIST-CTL ASY2-AC	2.75		202	A2	2.10	
061005	INV DIST-CTL ASY3-DC	.57		43	A3		
061006	INV DIST-CTL ASY3-AC	2.75		203	A3		2.10
061701	CURR SENSOR-MIDBODY-1	3.26		7	OT		
061702	CURR SENSOR-MIDBODY-2	3.32		8	OT		
061703	CURR SENSOR-MIDBODY-3	3.31		9	OT		
061704	CURR SENSOR-PL MN B	1.06		64	OT		
061705	CURR SENSOR-PL MN C	1.05		65	OT		
061706	CURR SENSOR-LH ADP	1.03		223	OT		
061707	CURR SENSOR-LH ADP	1.03		23	OT		
061708	CURR SENSOR-RH ADP	1.03		23	OT		
061709	CURR SENSOR-RH ADP	1.03		23	OT		
061801	H202 CRYO ASY1A-QUES	11.32		7	FM		
061802	H202 CRYO ASY1B-QUES	11.50		7	FM		
061803	H202 CRYO ASY1A-H2CY	6.43		9	FM		
061804	H202 CRYO ASY1B-H2CY	6.43		7	FM		
061805	H202 CRYO ASY1A-O2CY	24.27		9	FM		
061806	H202 CRYO ASY1B-O2CY	24.65		9	FM		
061811	H202 CRYO ASY2A-QUES	11.50		9	FM		
061812	H202 CRYO ASY2B-QUES	11.50		8	FM		
061813	H202 CRYO ASY2A-H2CY	6.45		9	FM		
061814	H202 CRYO ASY2B-H2CY	6.43		9	FM		
061815	H202 CRYO ASY2A-O2CY	24.72		9	FM		
061816	H202 CRYO ASY2B-O2CY	24.65		9	FM		
062001	PROX SNSR EL PKG -1	10.46		217	A1		
062002	PROX SNSR EL PKG -2	10.46		214	A2		
062101	MTR CNTL ASSY FWD -1	3.78		22	W1	8.00A	8.00A
062102	MTR CNTL ASSY FWD -2	3.50		12.50	W2		
062103	MTR CNTL ASSY FWD -3	4.75		18.90	W3		
062201	MTR CNTL ASSY MID -1	11.52		22.80	FM		
062202	MTR CNTL ASSY MID -2	11.94		13.50	FM		
062203	MTR CNTL ASSY MID -3	10.01		20.20	FM		
062204	MTR CNTL ASSY MID -4	11.80		13.20	FM		
062301	MTR CNTL ASSY AFT -1	8.63		20.00	FM		
062302	MTR CNTL ASSY AFT -2	8.14		20.70	FM		
062303	MTR CNTL ASSY AFT -3	14.67		30.60	FM		
062401	LOAD CNTL ASSY FWD1	21.39		26.33	W1		
062402	LOAD CNTL ASSY FWD2	25.82		31.82	W2		
062403	LOAD CNTL ASSY FWD3	23.54		29.03	W3		
062501	LOAD CNTL ASSY AFT1	65.62		24.59	F4		
062502	LOAD CNTL ASSY AFT2	59.75		23.85	F5		
062503	LOAD CNTL ASSY AFT3	67.48		31.09	F6		
062601	PCA FWD -1	81.96		26.95	W1		
062602	PCA FWD -2	52.35		17.21	W2		
062603	PCA FWD -3	42.49		13.99	W3		
062701	PCA MID -1	47.32		43.87	FM		
062702	PCA MID -2	24.12		21.72	FM		
062703	PCA MID -3	29.64		26.76	FM		
062801	PCA AFT -1	30.17		37.05	F4		
062802	PCA AFT -2	16.21		19.87	F5		

Figure 6.4-3. - Continued

062603	PCA AFT =3	16.66	20.92	74	F6
062604	PCA AFT =4	27.44	33.42	60	F6
062605	PCA AFT =5	26.25	32.15	61	F5
062606	PCA AFT =6	4.00	4.90	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	313.00	*	31	A3
070104	GPC CPU#4-RUN	313.00	*	31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	340.00	*	31	A2
070204	GPC IOP#4-RUN	340.00	*	31	A3
070205	GPC IOP#5-RUN	340.00	*	31	A1
070301	MDM FF1	58.90		31	A2
070302	MDM FF2	60.00		28	W1
070303	MDM FF3	55.50		29	W2
070304	MDM FF4	58.40		30	W3
070401	MDM FA1	54.80		29	W2
070402	MDM FA2	54.20		66	F4
070403	MDM FA3	55.60		67	F5
070404	MDM FA4	54.20		68	F6
070901	MM =1 TAPE GPER	18.65	*	66	F6
070902	MM =2 TAPE GPER	18.65	*	22	W1
071001	MDM OFT 1	46.80	*	22	W2
071002	MDM OFT 2	46.80	*	19	W1
071003	MDM OFT 3	46.80	*	19	W2
071004	MDM OFT 4 FLT DECK	47.40		21	W3
071101	MDM OAI 1	40.40		21	W1
071102	MDM OAI 2	41.30		66	F4
071103	MDM OAI 3	42.10		67	F5
071401	MDM PL 1	42.70		68	F6
071402	MDM PL 2	54.40		28	W1
071501	ENG INTREFC UN =1	56.90		29	W2
071502	ENG INTREFC UN =2	49.30		66	F4
071503	ENG INTREFC UN =3	49.30		67	F5
071602	DETA#1 SRB-HI RATE	49.30		68	F6
071604	DETA#2 SRB-HI RATE	9.81	*	78	F4
075001	GPC CNTLR 1 PS A	6.62		28	F5
075002	GPC CNTLR 1 PS B	6.62		31	A1
075003	GPC CNTLR 2 PS A	6.62		31	A1
075004	GPC CNTLR 2 PS B	6.62		31	A2
075005	GPC CNTLR 3 PS A	6.62		31	A2
075006	GPC CNTLR 3 PS B	1.27		31	A2
202101	ENG 1 ME SPY ISO VLA	36.32		31	A2
202102	ENG 1 ME SPY ISO VLB	36.64		84	OT
202103	ENG 2 ME SPY ISO VLA	36.37		67	OT
202104	ENG 2 ME SPY ISO VLB	36.63		85	OT
202105	ENG 3 ME SPY ISO VLA	36.36		68	OT
202106	ENG 3 ME SPY ISO VLB	36.64		86	OT
202201	PREU HE SPY ISO VL 1	36.32		66	OT
202202	PREU HE SPY ISO VL 2	36.37		84	OT
203701	ENG 1 FASCOS SYS A	22.05		85	OT
203702	ENG 1 FASCOS SYS B	22.06		63	OT
203703	ENG 1 FASCOS SYS C	22.05		68	OT
203704	ENG 2 FASCOS SYS A	22.05		65	OT
203705	ENG 2 FASCOS SYS B	22.06		64	OT

Figure 6.4-3. - Continued

203706	ENG 2 FASCOS SYS C	22.05		65	OT
203707	ENG 3 FASCOS SYS A	22.06		65	OT
203708	ENG 3 FASCOS SYS B	22.06		64	OT
203709	ENG 3 FASCOS SYS C	22.05		65	OT
210701	LP ACT GMBL INST/LOG	6.79		72	OT
210702	LP STB GMBL INST/LOG	6.80		73	OT
210703	RP ACT GMBL INST/LOG	6.80		74	OT
210704	RP STB GMBL INST/LOG	6.79		72	OT
211501	BIPROP VL1 LP POS ID	1.36		72	OT
211502	BIPROP VL2 LP POS ID	1.36		73	OT
211503	BIPROP VL1 RP POS ID	1.36		72	OT
211504	BIPROP VL2 RP POS ID	1.36		74	OT
212106	TK ISO/XFD VL TLKBACK	.29		72	AC
212401	QUAN GAGE TOT-LP-OPR	8.88		78	OT
212402	QUAN GAGE TOT-RP-OPR	8.87		80	OT
217001	XFD OX/FU FLXL HTA-L	20.38	57.40	72	OT
217003	XFD OX/FU FLXL HTA-R	20.38	57.40	72	OT
217101	XFD OX/FU LNE HT-A-L	26.93	43.50	72	OT
217103	XFD OX/FU LNE HT-A-R	26.93	43.50	72	OT
217105	XFD OX/FU LNE HT-A-C	49.94	56.30	72	OT
217201	FU HIPT BLDLN HT-A-A	8.79	58.20	72	OT
217203	FU HIPT BLDLN HT-A-M	1.99	58.20	72	OT
217301	OX HIPT BLDLN HT-A-A	8.79	58.20	72	OT
217303	OX HIPT BLDLN HT-A-M	1.99	58.20	72	OT
217401	LOPT OXFU DRLN HTA-L	5.47	69.20	72	OT
217403	LOPT OXFU DRLN HTA-R	5.47	69.20	72	OT
220101	FWD THRUSTER F1F(-X)	.10	.15	22	OT
220105	FWD THRUSTER F2F(-X)	.10	.15	23	OT
220107	FWD THRUSTER F3F(-X)	.10	.15	24	OT
220111	FWD THRUSTER F3L(+Y)	.10	.15	24	OT
220201	AFT THRUSTER R1R(-Y)	.13	.20	78	OT
220204	AFT THRUSTER R2R(-Y)	.13	.20	80	OT
220207	AFT THRUSTER R3R(-Y)	.13	.20	79	OT
220214	AFT THRUSTER L1L(+Y)	.13	.20	78	OT
220217	AFT THRUSTER L2L(+Y)	.13	.20	80	OT
220221	AFT THRUSTER L3L(+Y)	.13	.20	79	OT
300201	FCP -1 O2 FLOWMETER	5.82		47	OT
300202	FCP -2 O2 FLOWMETER	6.06		48	OT
300203	FCP -3 O2 FLOWMETER	6.07		49	OT
300301	FCP -1 H2 FLOWMETER	5.82		47	OT
300302	FCP -2 H2 FLOWMETER	6.06		48	OT
300303	FCP -3 H2 FLOWMETER	6.07		49	OT
300401	FCP1 EL CTL-ORBT	4.67		38	OT
300402	FCP2 EL CTL-ORBT	4.64		39	OT
300403	FCP3 EL CTL-ORBT	4.60		40	OT
300501	FCP1 PHP-H2O SENSOR	236.06		201	OT
300502	FCP2 PHP-H2O SENSOR	236.34		202	OT
300503	FCP3 PHP-H2O SENSOR	240.02		203	OT
310301	O2 INK1 SIG COND QTY	2.17		42	OT
310302	H2 INK1 SIG COND QTY	2.17		42	OT
310303	O2 INK2 SIG COND QTY	2.18		41	OT
310304	H2 INK2 SIG COND QTY	2.37		41	OT
311701	O2 TANK 1 HEATER A1	210.90		7	OT
311702	O2 TANK 1 HEATER A2	210.50		7	OT
311703	O2 TANK 2 HEATER A1	222.50		9	OT
311704	O2 TANK 2 HEATER A2	220.70		9	OT
311801	O2 TANK 1 HEATER B1	211.70		9	OT

180.50

180.80

183.50

Figure 6.4-3. - Continued

311802	O2 TANK 1 HEATER B2	215.40		9	OT			
311803	O2 TANK 2 HEATER B2	219.50		8	OT			
311804	O2 TANK 2 HEATER B2	222.70		8	OT			
311901	H2 TANK 1 HEATER A	96.50		7	OT			
311902	H2 TANK 1 HEATER B	97.20		9	OT			
311903	H2 TANK 2 HEATER A	98.80		9	OT			
311904	H2 TANK 2 HEATER B	99.30		8	OT			
320301	APU1 CNTRLR-OPERATE	6.54	*	66	F4			
320302	APU2 CNTRLR-OPERATE	6.54	*	67	F5			
320303	APU3 CNTRLR-OPERATE	6.54	*	68	F6			
325202	FUEL FEEDLINE HTR 1B	3.18		4.70	85	OT		
325204	FUEL FEEDLINE HTR 2B	3.81		4.70	86	OT		
325206	FUEL FEEDLINE HTR 3B	2.24		4.70	84	OT		
325302	FUEL SERVLINE HTR 1B	2.19		37.50	85	OT		
325304	FUEL SERVLINE HTR 2B	17.89		37.50	86	OT		
325306	FUEL SERVLINE HTR 3B	24.19		37.50	84	OT		
325402	FUEL DRN LINE HTR 1B	2.22		5.40	85	OT		
325404	FUEL DRN LINE HTR 2B	2.88		5.40	86	OT		
325406	FUEL DRN LINE HTR 3B	1.77		5.40	84	OT		
325801	APU 1 PRI H2O HTR 1A	14.46		51.10	75	OT		
325803	APU 2 PRI H2O HTR 1A	4.19		51.10	76	OT		
325805	APU 3 PRI H2O HTR 1A	13.62		51.10	77	OT		
325901	APU 1 SEC H2O HTR 2A	15.38		51.10	75	OT		
325903	APU 2 SEC H2O HTR 2A	7.00		51.10	76	OT		
325905	APU 3 SEC H2O HTR 2A	7.00		51.10	77	OT		
326301	GG H2O TK LN HT 503A	6.39		51.10	75	OT		
326303	GG H2O TK LN HT 503A	11.60		51.10	77	OT		
400101	CABIN FAN A	646.16		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR IMP. CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	
400600	ARS HUM SEP SIG CND	2.35		217	AC			1.80A
400701	PP02 CNTRLR-SYS 1	.70		16	AC			
400702	PP02 CNTRLR-SYS 2	.70		17	AC			
400711	O2 CONTROL VLV-SYS 1	4.67	50.00	16	AC			
400712	O2 CONTROL VLV-SYS 2	4.68	50.00	17	AC			
400731	CABIN PRESS SENSOR	.70		16	AC			
400732	CAB PRES DECAY SENSR	1.99		17	AC			
400751	O2 FLOW SENSOR-SYS 1	.99		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.00		17	AC			
400753	H2 FLOW SENSOR-SYS 1	.99		16	AC			
400754	H2 FLOW SENSOR-SYS 2	1.00		17	AC			
400761	PP02 SENSOR-SYS 1	.79		16	AC			
400762	PP02 SENSOR-SYS 2	.80		17	AC			
400763	PP02 SENSOR-SYS 3	.80		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.73		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC			2.40B
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.50B	
401001	SMOKE DT SMH-L FLT D	6.46		16	OT			
401002	SMOKE DT SMH-R FLT D	6.46		16	OT			
401003	S D SNHR A - BAY 1	6.51		17	OT			
401004	S D SNHR B - BAY 1	6.48		17	OT			
401005	S D SNHR A - BAY 2	6.46		16	OT			

Figure 6.4-3. - Continued

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401006	S D SNRSR B - BAY 2	6.51	18	OT			
401007	S D SNRSR A - BAY 3	6.48	17	OT			
401008	S D SNRSR B - BAY 3	6.46	16	OT			
401009	S D SNRSR - CABIN	6.51	18	OT			
401102	THU FAN B	63.53	202	WC	48.60		
401200	THU FAN SIG COND.	2.35	218	AC		1.40B	
401303	H2O PUMP - LOOP 2	250.88	203	WC		191.80	
401501	H2O BYPASS CN SC-PRI	7.71	217	AC		5.90A	
401501	H2O BYPASS CN SC-SEC	7.72	211	AC			
401502	H2O BYPASS CN SC-SEC	7.72	201	FP	5.90A		
402401	FREON PMP LP 1-A-ASC	489.17	203	FP	374.00		
402903	FREON PMP LP 2-A-ASC	489.20	215	OT	5.00B	374.00	
403601	FREON COOL LP1 INSTR	6.54	218	OT		5.00B	
403602	FREON COOL LP2 INSTR	6.54	218	OT			
403701	FES CONTROLLER PRI-A	7.42	86	OT			
403801	FES HI LD PLSR V-PRI	28.29	89	OT			
403811	FES HI LD ISO VL-PRI	28.29	89	OT			
403901	FES TOP LG PLSR V-PRI	28.29	89	OT			
403921	TPNG V MLDNG COIL-PR	1.62	89	OT			
408201	SEC FWTR LN HTA-TS11	.49	86	OT			
408203	SEC FWTR LN HTA-TS12	1.19	86	OT			
408205	SEC FWTR LN HTA-TS13	3.58	86	OT			
408207	SEC FWTR LN HTA-TS1	1.79	86	OT			
408501	HI LD DUCT HTR1 SEC1	553.60	47	OT			
408601	HI LD DUCT HTR1 SEC2	254.60	47	OT			
408701	HI LD DCT NOZ HT GP1	130.70	47	OT			
409001	TOP LG DUCT HTR1 SEC1	378.90	47	OT			
409101	TOP LG DUCT HTR1 SEC2	468.60	84	OT			
409201	TOP LG DUCT HTR1 SEC3	62.80	84	OT			
409301	TOP LG DUCT HTR1 SEC4	64.80	84	OT			
409401	SONIC LFT NOZ HTR 1A	26.00	85	OT			
409401	SONIC RHT NOZ HTR 2A	24.70	85	OT			
500801	RESVOIR =1 VOL SNRSR	1.83	212	OT	1.40B		
500802	RESVOIR =2 VOL SNRSR	1.83	215	OT		1.40B	
500803	RESVOIR =3 VOL SNRSR	1.83	218	OT			1.40B
503701	H2O BLR1 CNT LOGIC A	4.71	217	OT			
503703	H2O BLR2 CNT LOGIC A	3.92	213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79	214	OT		2.90A	
503801	H2O BOILER 1 CNTL A	.77	63	OT			
503803	H2O BOILER 2 CNTL A	.67	64	OT			
503805	H2O BOILER 3 CNTL A	.77	65	OT			
505301	WSB TK/BOILER HTR 1A	7.31	64	OT			
505301	WSB TK/BOILER HTR 2A	8.16	64	OT			
505305	WSB TK/BOILER HTR 3A	8.58	65	OT			
505401	WSB VENT NOZZ HTR 1A	73.60	63	OT			
505403	WSB VENT NOZZ HTR 2A	61.50	64	OT			
505405	WSB VENT NOZZ HTR 3A	59.10	30	A1			
522701	BRK/SKID CNIL BOX A	17.45	29	A2			
522702	BRK/SKID CNIL BOX B	17.45	11	AC			
600301	ESCAPE SUIT VI ASY L	94.01	10	AC			
600302	ESCAPE SUIT VI ASY R	92.45	10	AC			
		TOTAL INVERTER WATTS	=	2058.24	1407.69	1955.09	
		TOTAL 3 PHASE WATTS	=	958.60	591.00	1245.40	
		TOTAL A PHASE WATTS	=	250.60	163.80	20.80	
		TOTAL B PHASE WATTS	=	201.40	175.60	68.40	
		TOTAL C PHASE WATTS	=	163.00	160.00	160.00	

Figure 6.4-3. - Concluded

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TOTAL WATTS = 21751.98

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 000:16:00.0

Figure 6.4-4.- Vehicle configuration at 32 minutes 21.1 seconds MET (15 minutes prior to OMS-2)

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 000:32:21.1
--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMED LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-4. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	118.74			28	WC			
010102	IMU =2 OPERATE	118.75	*		29	WC			
010103	IMU =3 OPERATE	118.75	*		30	WC			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010801	ATVC =1 PWR SUP-OPER	38.90	*		66	F4			
010802	ATVC =2 PWR SUP-OPER	38.90	*		67	F5			
010803	ATVC =3 PWR SUP-OPER	38.90	*		68	F6			
010804	ATVC =4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC =1-ISO VLV DRVR	.77			65	F4			
010812	ATVC =2-ISO VLV DRVR	.77			63	F5			
010813	ATVC =3-ISO VLV DRVR	.77			64	F6			
010814	ATVC =4-ISO VLV DRVR	.77			76	F6			
010821	ATVC =1 ACTS-OPER	3.30	*		66	OT			
010822	ATVC =2 ACTS-OPER	3.30	*		67	OT			
010823	ATVC =3 ACTS-OPER	3.30	*		68	OT			
010824	ATVC =4 ACTS-OPER	3.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	.40	*		68	F4			
011002	ASA =2 IVD/BF-OPER	.40	*		66	F5			
011003	ASA =3 IVD/BF-OPER	.40	*		67	F6			
011004	ASA =4 IVD-OPER	.40	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	16.00	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	16.00	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	16.00	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.00	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			21	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	RGA =1 OPR	24.51	*		78	FA			
011302	RGA =2 OPR	24.81	*		64	FA			
011303	RGA =3 OPR	24.84	*		49	FA			
011304	RGA =4 OPR	24.56	*		46	FA			
011401	ACCEL ASSY =1 - OPR	2.40			16	A1			
011402	ACCEL ASSY =2 - OPR	2.40			17	A2			
011403	ACCEL ASSY =3 - OPR	2.40			30	A2			
011404	ACCEL ASSY =4 - OPR	2.40			29	A1			
011601	THC-LH	3.07			19	AC			
011701	RHC-LH	4.65			19	AC			
011702	RHC-RH	4.67			20	AC			
011801	RPTA-LH	1.19			19	AC			
011802	RPTA-RH	1.19			20	AC			
011901	SBTC-LH	1.56			19	AC			

Figure 6.4-4. - Continued

011902	SBTC-RH	1.59		20	AC
020602	NTN SIG PROCESSOR 2	27.75		34	W3
021101	S-RAND FM XMITR =1	10.30	15.00	33	W3
021200	S-BND FM SIG PRO-ORB	.74	15.00	36	A3
021302	S-BND XPDR=2-DIRECT	57.76	*	34	W3
021401	S-BND PLR AMP 1-SBY	20.36		23	W3
021402	S-BND PWR AMP 2-OPR	383.21	*	24	W3
021501	S-RD PREAMP 1-SBY	12.61		33	W3
021502	S-RD PREAMP 2-OPR	18.50		34	W3
021600	S-BND ANT SW-ASY-QES	.64	*	13	A3
021701	TACAN =1 SEARCH	209.15	*	213	A1
021702	TACAN =2 SEARCH	209.15	*	216	A2
021703	TACAN =3 SEARCH	209.49	*	219	A3
022101	RADAR ALTIMETER =1	22.87		16	W1
022102	RADAR ALTIMETER =2	23.05		17	W2
024101	AUDIO CENTER 1	37.99		42	W1
024201	AUDIO TERM UN-PLT RT	3.32		42	AC
024202	AUDIO TERM UN-CDR LT	3.38		41	AC
024203	AUDIO TERM UNIT-MSS	3.39		10	AC
024204	AUDIO TERM UNIT-PS	3.55		15	AC
024801	AUDIO INTF UNIT-PLT	.66		42	AC
024802	AUDIO INTF UNIT-CDR	.67		41	AC
024910	MULTIPLE HOSET ADPTR	.67		41	AC
030101	ADI =1 FWD LH	16.93		19	AC
030102	ADI =2 FWD RH	17.01		20	AC
030201	HST =1	26.66		16	AC
030202	HST =2	26.76		17	AC
030301	AMI =1	6.99		16	AC
030302	AMI =2	7.01		17	AC
030401	ALPHA MACH EL UNIT 1	31.36		16	HX
030402	ALPHA MACH EL UNIT 2	31.47		17	HX
030501	AVVI =1	6.99		16	AC
030502	AVVI =2	7.01		17	AC
030601	ALT VER VEL EL UN =1	24.57		16	HX
030602	ALT VER VEL EL UN =2	24.65		17	HX
030701	TAPE MTR M1 (MPS PR)	8.99		16	AC
030702	TAPE MTR M2 (MPS PR)	5.99		16	AC
030703	TAPE MTR M3 (MPS PR)	11.98		16	AC
030705	TAPE MTR M1 (HYD PR)	9.02		17	AC
030706	TAPE MTR M2 (HYD QTY)	9.02		17	AC
030707	TAPE MTR M3 (APU)	9.02		17	AC
030708	TAPE MTR M4 (APU OIL)	6.01		17	AC
031300	SPT	17.40		16	AC
031400	OMS/RCS PROP QTY IND	4.81		18	AC
031501	CAN PWR SUP A-SBY	20.42		41	A3
031502	CAN PWR SUP B-SBY	12.92		42	A3
031701	MISSION TIMER =1 FWD	3.50		16	AC
031702	MISSION TIMER =2 AFT	3.61		17	AC
031801	EVENT TIMER =1 FWD	3.01		17	AC
031802	EVENT TIMER =2 AFT	3.00		16	AC
032201	DDU =1 FWD LH	120.00		19	HX
032202	DDU =2 FWD RH	120.00		20	HX
032701	CRT DU =1 - LF	84.45		22	HX
032702	CRT DU =2 - RE	84.46		23	HX
032703	CRT DU =3 - CF	84.35		24	HX
032801	DEU =1	202.00		22	HX
032802	DEU =2	202.00		23	HX

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Figure 6.4-4. - Continued

032803	DEU =3	202.00		24	HX	195.00A	
033101	PANEL LYS - LEFT/CTR	231.37		211	AC	177.00B	
033102	PANEL LYS - LFT/OVHD	173.86		212	AC		133.00B
033103	PANEL LIGHTS - RIGHT	172.55		215	AC		132.00A
033107	PANEL LYS - RHT/OVHD	76.66		214	AC		57.80B
033201	INSTR LYS - LEFT/CTR	35.95		218	AC		27.50B
033202	INSTR LYS - OVERHEAD	65.07		215	AC	49.70A	
033203	INSTR LYS - RIGHT	22.88		211	AC	17.50B	
033301	NUMERIC LIGHTS-FWD	31.48		212	AC		
034202	GLARSHLD FLDLT-LEFT	31.35	*	41	AC		
034203	GLARSHLD FLDLT-RGHT	22.55		42	AC		
034204	LRFT OVERHEAD FLDLT A	22.69		17	AC		
034205	RHT OVERHEAD FLDLT A	16.48		18	AC		
034206	CONSOLE FLDLT-CMDIL	16.54		16	AC		
034207	CONSOLE FLDLT-PLT	7.63	*	17	AC		
035600	C+M ANNUN ASSY-OPR	6.67	*	41	AC		
037200	CICU - OPER	32.96		43	A1		
037301	ACA =1	66.78		16	AC		
037302	ACA =2/3	54.97		35.30	17	AC	
037303	ACA =4/5	12.40		35.20	18	AC	
037401	ANNUN 1	23.15		36.70	16	AC	
037402	ANNUN 2/3	19.49		30.00	17	AC	
037403	ANNUN 4/5	55.00		30.00	18	AC	
040301	PCM MASTER UNIT =1	15.54	*	30	W1		
040401	OPS-1 RECORDER-REPLY	51.22	*	28	W2		
040402	OPS-2 RECORDER-REPLY	51.22	*	29	W2		
040403	PAYLD RECORDER-REPLY	22.80		30	W1		
040501	DED SIG CND OF1- FWD	32.60		19	W1		
040502	DED SIG CND OF2- FWD	26.80		20	W2		
040503	DED SIG CND OF3- FWD	36.20		20	W3		
040601	DED SIG CND OA1- AFT	29.10		66	F4		
040602	DED SIG CND OA2- AFT	29.10		67	F5		
040603	DED SIG CND OA3- AFT	29.10		68	F6		
040900	MTU - OPER	23.30		63	W4		
041201	DSC OL1 OMS/RCS	21.40		78	OT		
041202	DSC OL2 OMS/RCS	23.30		80	OT		
041203	DSC OR1 OMS/RCS	21.40		78	OT		
041204	DSC OR2 OMS/RCS	13.90		79	OT		
041301	DSC OM1 MID FUS	22.10		19	OT		
041302	DSC OM2 MID FUS	26.00		19	OT		
041400	DSC OF4 FWD RCS	19		63	OT		
041601	WDRND S/C =1 (BAY4)	.39		63	OT		
041602	WDRND S/C =2 (BAY4)	.39		63	OT		
041603	WDRND S/C =3 (BAY4)	.39		63	OT		
041604	WDRND S/C =4 (BAY4)	.39		63	OT		
041701	WDRND S/C =1 (BAY5)	.39		64	OT		
041702	WDRND S/C =2 (BAY5)	.39		64	OT		
050100	PWR DIST ASSY FWD	10.10		12	OW		
050201	PWR DIST ASSY =1 MID	9.41		44	D1		
050202	PWR DIST ASSY =2 MID	9.41		44	D2		
050203	PWR DIST ASSY =3 MID	9.41		44	D3		
050301	PCM MASTER UNIT =1	55.00		24	OW		
050401	DSC FWD =1-SDF1	22.20		12	OW		
050402	DSC FWD =2-SDF2	22.20		12	OW		
050403	DSC FWD =3-SDF3	22.50		12	OW		
050501	DSC UNIT #1 - SDL1	16.60		44	D1		
050502	DSC UNIT #2 - SDL2	24.70		44	D1		

Figure 6.4-4. - Continued

050503	DSC UNIT #3 - SCL3	16.60	44	01
050504	DSC UNIT #4 - SCL4	24.70	44	01
050505	DSC UNIT #5 - SCL5	46.70	44	01
050506	DSC UNIT #1 - SDR1	16.60	44	02
050507	DSC UNIT #2 - SDR2	24.70	44	02
050508	DSC UNIT #3 - SDR3	16.60	44	02
050509	DSC UNIT #4 - SDR4	46.80	44	02
050601	DSC UNIT #1 - SDC1	16.60	44	03
050602	DSC UNIT #2 - SDC2	23.90	44	03
050603	DSC UNIT #3 - SDC3	16.60	44	03
050604	DSC UNIT #4 - SDC4	17.70	44	03
050605	DSC UNIT #5 - SDC5	16.60	44	03
050701	WB FDM 1A (FMF1)-FWD	25.25	12	0W
050702	WB FDM 1B (FMF1)-FWD	25.25	12	0W
050703	WB FDM 2A (FMF2)-FWD	25.25	12	0W
050704	WB FDM 2B (FMF2)-FWD	25.25	12	0W
050705	WB FDM 3A (FMF3)-FWD	25.25	12	0W
050706	WB FDM 3B (FMF3)-FWD	25.25	12	0W
050801	WDRND FDM UN1-MID L1	23.59	47	01
050802	WDRND FDM UN1-MID L1	24.19	48	01
050803	WDRND FDM UN2-MID L1	23.59	47	01
050804	WDRND FDM UN2-MID L1	24.19	48	01
050805	WDRND FDM UN1-MID R2	23.59	47	02
050806	WDRND FDM UN1-MID R2	24.19	48	02
050807	WDRND FDM UN2-MID R2	23.59	47	02
050808	WDRND FDM UN2-MID R2	24.19	48	02
050811	WDRND FDM UN1-MID L3	23.59	47	03
050812	WDRND FDM UN1-MID L3	23.59	47	03
050813	WDRND FDM UN2-MID L3	47.19	47	03
050820	FMEGN FLGHTR-KID L13	1.89	47	03
050831	LOAD SEN ACCEL-1 FWD	3.53	12	0W
050832	LOAD SEN ACCEL-2 FWD	3.53	12	0W
050833	LOAD SEN ACCEL-HR 2	13.21	47	02
050834	LOAD SEN ACCEL-HR 1	10.16	48	02
050930	PCM RCDR-RECD-SERIAL	56.55	12	0W
051011	WBSC FWD (A1311)-100%	2.83	12	0W
051012	WBSC FWD (A1311)-ASCT	4.95	12	0W
051020	WBSC FWD (A1321)-WBH	5.66	12	0W
051031	WBSC FWD (A1331)-ASCT	7.40	12	0W
051032	WBSC FWD (A1331)-WBH	7.78	12	0W
051041	WBSC FWD (A1341)-WBH	9.59	12	0W
051111	WBSC LM1 (A1351)-WBH	2.11	48	01
051112	WBSC LM1 (A1351)-WBH	3.30	47	01
051121	WBSC LM1 (A1361)-WBH	3.39	48	01
051122	WBSC LM1 (A1361)-WBH	3.68	47	01
051131	WBSC LM1 (A1371)-WBH	5.13	48	01
051132	WBSC LM1 (A1371)-WBH	4.34	47	01
051141	WBSC LM1 (A1381)-WBH	3.77	48	01
051142	WBSC LM1 (A1381)-WBH	5.00	47	01
051211	WBSC RM2 (A1391)-WBH	2.71	48	02
051212	WBSC RM2 (A1391)-WBH	3.02	47	02
051221	WBSC RM2 (A1401)-WBH	3.10	48	02
051222	WBSC RM2 (A1411)-WBH	2.64	47	02
051231	WBSC RM2 (A1411)-WBH	4.74	48	02
051232	WBSC RM2 (A1411)-WBH	4.34	47	02
051241	WBSC RM2 (A1421)-WBH	3.10	48	02
051242	WBSC RM2 (A1421)-WBH	5.29	47	02

Figure 6.4-4. - Continued

051311	WBSC LM3 (A143)-ASCT	8.31	47	D3
051321	WBSC LM3 (A144)-ASCT	2.36	47	D3
051322	WBSC LM3 (A144)-WBM	6.61	47	D3
051331	WBSC LM3 (A145)-ASCT	3.68	47	D3
051332	WBSC LM3 (A145)-100%	2.64	47	D3
051333	WBSC LM3 (A145)-100%	3.10	48	D3
051340	WBSC LM3 (A146)-ASCT	9.25	47	D3
051401	DC-DC XDCERS-FWD	15.29	47	OT
051402	DC-DC XDCERS-FWD	5.45	12	OT
051403	DC-DC XDCERS-FWD	5.86	47	D3
051404	DC-DC XDCERS-MID L1	28.88	47	OT
051405	DC-DC XDCERS-MID L1	7.74	47	OT
051406	DC-DC XDCERS-MID L1	5.22	48	OT
051407	DC-DC XDCERS-MID L1	27.18	47	OT
051408	DC-DC XDCERS-MID L1	1.89	47	OT
051409	DC-DC XDCERS-MID L1	3.48	47	OT
051411	DC-DC XDCERS-MID L1	7.76	47	OT
051412	DC-DC XDCERS-MID L1	37.37	47	OT
051501	SGSC FWD (A161)-100%	23.33	12	DW
051502	SGSC FWD (A161)-100%	16.56	12	DW
051503	SGSC FWD (A161)-WBM	5.55	12	DW
051504	SGSC FWD (A161)-WBM	15.55	12	DW
051611	SGSC ML1 (A162)-100%	87.58	47	D1
051612	SGSC ML1 (A162)-WBM	14.53	47	D1
051613	SGSC ML1 (A162)-WBM	14.90	48	D1
051621	SGSC ML1 (A163)-100%	61.82	47	D1
051622	SGSC ML1 (A163)-WBM	29.80	48	D1
051623	SGSC ML1 (A163)-WBM	7.27	47	D1
051624	SGSC ML1 (A163)-100%	7.45	48	D1
051625	SGSC ML1 (A163)-100%	29.07	47	D1
051631	SGSC MR2 (A164)-100%	110.87	48	D2
051632	SGSC MR2 (A164)-100%	22.35	48	D2
051641	SGSC MR2 (A165)-100%	100.33	48	D2
051642	SGSC MR2 (A165)-100%	17.25	48	D2
051651	SGSC MR2 (A169)-100%	68.69	48	D2
051652	SGSC MR2 (A169)-WBM	29.80	48	D2
051653	SGSC MR2 (A169)-WBM	21.80	47	D2
051654	SGSC MR2 (A169)-100%	29.80	48	D2
051661	SGSC ML3 (A166)-100%	73.91	48	D3
051662	SGSC ML3 (A166)-WBM	29.07	47	D3
051671	SGSC ML3 (A167)-100%	58.05	48	D3
051672	SGSC ML3 (A167)-WBM	43.60	47	D3
051673	SGSC ML3 (A167)-100%	22.35	48	D3
051700	MDM DF1 - FWD	53.90	12	DW
051801	MDM DL1 - MID LEFT 1	50.00	44	D1
051802	MDM DL2 - MID LEFT 1	50.20	44	D1
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2
051804	MDM DR2 - MID RIGHT 2	52.80	44	D2
051805	MDM DC1 - MID LEFT 3	49.10	44	D3
051806	MDM DC2 - MID LEFT 3	52.50	44	D3
051900	S-RAND FM XMITR-DFI	121.18	12	DW
052200	APS DFI SIGNAL COND	8.10	215	OT
052300	ATCS DFI SIGNAL COND	1.96	217	OT
052401	DEFI FREON PUMP #1	306.06	201	D1
052500	3-AXIS ACCEL	1.72	12	OT
060301	MEC-1-AVERAGE	84.00	78	F4
060302	MEC-2-AVERAGE	84.00	79	F5

6.208 1.50A
234.00

Figure 6.4-4. - Continued

060901	GRND CMDS INTFC UN A	27.22		33	W3		
061001	INV DIST+CTL ASY1-DC	2.57		41	A1		
061002	INV DIST+CTL ASY1-AC	2.75		201	A1	2.10	
061003	INV DIST+CTL ASY2-DC	2.57		42	A2		
061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10	
061005	INV DIST+CTL ASY3-DC	2.57		43	A3		
061006	INV DIST+CTL ASY3-AC	2.75		203	A3	2.10	
061701	CURR SENSOR-MIDBDY=1	3.28		7	OT		
061702	CURR SENSOR-MIDBDY=2	3.34		8	OT		
061703	CURR SENSOR-MIDBDY=3	3.34		9	OT		
061704	CURR SENSOR-PL MN B	1.06		64	OT		
061705	CURR SENSOR-PL MN C	1.06		65	OT		
061706	CURR SENSOR-LH ADP	1.03		22	OT		
061707	CURR SENSOR-LH ADP	1.03		23	OT		
061708	CURR SENSOR-RH ADP	1.03		24	OT		
061709	CURR SENSOR-RH ADP	1.03		25	OT		
061801	H202 CRYO ASY1A-QUES	11.57		7	FM		
061802	H202 CRYO ASY1B-QUES	24.42		8	FM		
061803	H202 CRYO ASY1A-02CY	24.82		9	FM		
061804	H202 CRYO ASY1B-02CY	11.60		8	FM		
061805	H202 CRYO ASY2A-QUES	11.57		9	FM		
061806	H202 CRYO ASY2B-QUES	24.86		8	FM		
061807	H202 CRYO ASY2A-02CY	24.82		9	FM		
061808	H202 CRYO ASY2B-02CY	10.46		217	A1		
062001	PROX SNR EL PKG =1	10.46		218	A2	8.00A	8.00A
062002	PROX SNR EL PKG =2	3.80	15.00	22	W1		
062101	MTR CNTL ASSY FWD =1	3.52	12.50	23	W2		
062102	MTR CNTL ASSY FWD =2	4.78	18.90	24	W3		
062103	MTR CNTL ASSY FWD =3	11.58	22.80	44	EM		
062201	MTR CNTL ASSY MID =1	12.02	13.50	45	FM		
062202	MTR CNTL ASSY MID =2	10.07	20.20	44	FM		
062203	MTR CNTL ASSY MID =3	11.88	13.20	45	FM		
062204	MTR CNTL ASSY MID =4	8.70	20.00	63	FM		
062301	MTR CNTL ASSY AFT =1	8.20	20.70	64	F5		
062302	MTR CNTL ASSY AFT =2	14.78	30.60	65	F6		
062303	MTR CNTL ASSY AFT =3	21.53	26.33	42	W1		
062401	LOAD CNTL ASSY FWD1	25.99	31.82	33	W2		
062402	LOAD CNTL ASSY FWD2	23.69	29.03	34	W3		
062403	LOAD CNTL ASSY FWD3	66.10	24.59	84	FM		
062501	LOAD CNTL ASSY AFT1	60.18	23.85	85	F5		
062502	LOAD CNTL ASSY AFT2	67.97	31.09	86	F6		
062503	LOAD CNTL ASSY AFT3	82.49	26.95	22	W1		
062601	PCA FWD =1	52.68	17.21	23	W2		
062602	PCA FWD =2	42.77	13.99	24	W3		
062603	PCA FWD =3	47.61	41.87	47	EM		
062701	PCA MID =1	24.24	21.79	48	FM		
062702	PCA MID =2	29.84	26.76	49	FM		
062703	PCA MID =3	30.39	37.05	72	F4		
062801	PCA AFT =1	16.32	19.87	73	F5		
062802	PCA AFT =2	16.77	20.42	74	F6		
062803	PCA AFT =3	27.63	33.62	60	F4		
062804	PCA AFT =4	26.43	32.15	61	F5		
062805	PCA AFT =5	4.03	4.90	62	F6		
062806	PCA AFT =6	313.00		31	A1		
070101	GPC CPU#1-RUN	313.00		31	A2		
070102	GPC CPU#2-RUN	313.00		31	A3		
070103	GPC CPU#3-RUN	313.00		31	A3		

Figure 6.4-4. - Continued

070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	340.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	340.00	*	31	A2
070301	MDM FF1	58.90		28	W1
070302	MDM FF2	60.00		29	W2
070303	MDM FF3	55.58		30	W3
070304	MDM FF4	58.60		29	W2
070401	MDM FA1	54.80		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6
070901	MM =1 TAPE OPER	18.77	*	22	W1
070902	MM =2 TAPE OPER	18.77	*	23	W2
071001	MDM OFI 1	46.80		19	W1
071002	MDM OFI 2	46.80		19	W2
071003	MDM OFI 3	47.40		21	W3
071004	MDM OFI 4 FLT DECK	40.40		21	W4
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.10		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
071501	ENG INTRFC UN =1	49.30		66	F4
071502	ENG INTRFC UN =2	49.30		67	F5
071503	ENG INTRFC UN =3	49.30		68	F6
071602	DBTAW1 SRB-HI RATE	9.88	*	78	F4
071604	DBTAW2 SRB-HI RATE	9.88	*	78	F5
075001	GPC CNTLR 1 PS A	6.67		31	A1
075002	GPC CNTLR 1 PS B	6.67		31	A1
075003	GPC CNTLR 2 PS A	6.67		31	A2
075004	GPC CNTLR 2 PS B	6.67		31	A2
075005	GPC CNTLR 3 PS A	6.67		31	A2
075006	GPC CNTLR 3 PS B	1.28		31	A2
200502	LC2 OB F+D VL OP SOL	36.63		86	OT
200602	LC2 IB F+D VL OP SOL	36.63		85	OT
200702	LH2 OB F+D VL OP SOL	36.63		85	OT
200802	LH2 IB F+D VL OP SOL	36.59		84	OT
200810	LH2 HI PT BLD VALVE	36.59		84	OT
200900	LH2 TO VLV OP SOL	36.59		84	OT
202103	ENG 2 HC SPY ISO VLA	36.63		85	OT
202104	ENG 2 HC SPY ISO VLB	36.90		68	OT
202201	PNEU HE SPY ISO VL 1	36.59		84	OT
202202	PNEU HE SPY ISO VL 2	36.63		85	OT
203701	ENG 1 FASCOS SYS A	22.23		63	OT
203702	ENG 1 FASCOS SYS B	22.23		64	OT
203703	ENG 1 FASCOS SYS C	22.22		65	OT
203704	ENG 2 FASCOS SYS A	22.23		63	OT
203705	ENG 2 FASCOS SYS B	22.23		64	OT
203706	ENG 2 FASCOS SYS C	22.22		65	OT
203707	ENG 3 FASCOS SYS A	22.23		63	OT
203708	ENG 3 FASCOS SYS B	22.23		64	OT
203709	ENG 3 FASCOS SYS C	22.22		65	OT
210701	LP ACT GMBL INST/LOG	6.84		72	OT

Figure 6.4-4. - Continued

210702	LP STG GMBL INST/LOG	6.85		73	OT			
210703	RP ACT GMBL INST/LOG	6.84		74	OT			
210704	RP STG GMBL INST/LOG	6.84		72	OT			
211501	BIPROP VL1 LP POS ID	1.37		72	OT			
211502	BIPROP VL2 LP POS ID	1.37		73	OT			
211503	BIPROP VL1 RP POS ID	1.37		72	OT			
211504	BIPROP VL2 RP POS ID	1.37		74	OT			
212106	TK ISO/XFD VL TLKBC	1.29		72	AC			
212401	QUAN CAGE TOT-LP-OPR	8.94	*	78	OT			
212402	QUAN CAGE TOT-RP-OPR	8.94	*	80	OT			
217001	XFD OX/FU FLXL HTA-L	20.38		57.40	72	OT		
217003	XFD OX/FU FLXL HTA-R	20.38		57.40	72	OT		
217101	XFD OX/FU LNE HT-A-L	26.93		43.50	72	OT		
217103	XFD OX/FU LNE HT-A-R	26.93		43.50	72	OT		
217105	XFD OX/FU LNE HT-A-C	49.94		55.30	72	OT		
217201	FU HIPT BLDLN HT-A-A	8.79		58.20	72	OT		
217203	FU HIPT BLDLN HT-A-M	1.99		8.20	72	OT		
217301	OX HIPT BLDLN HT-A-A	8.79		58.20	72	OT		
217303	OX HIPT BLDLN HT-A-M	1.99		8.20	72	OT		
217401	LOPT OXFU DRLN HTA-L	5.47		69.20	72	OT		
217403	LOPT OXFU DRLN HTA-R	5.47		69.20	72	OT		
220101	FWD THRUSTER F1L(-Y)	.10		.15	22	OT		
220105	FWD THRUSTER F2F(-X)	.10		.15	23	OT		
220109	FWD THRUSTER F3F(-X)	.10		.15	24	OT		
220111	FWD THRUSTER F3L(+Y)	.10		.15	24	OT		
220201	AFT THRUSTER R1R(-Y)	.13		.20	78	OT		
220204	AFT THRUSTER R2R(-Y)	.13		.20	80	OT		
220207	AFT THRUSTER R3R(-Y)	.13		.20	79	OT		
220214	AFT THRUSTER L1L(+Y)	.13		.20	78	OT		
220217	AFT THRUSTER L2L(+Y)	.13		.20	80	OT		
220221	AFT THRUSTER L3L(+Y)	.13		.20	79	OT		
300201	FCP -1 O2 FLOWMETER	5.85		47	OT			
300202	FCP -2 O2 FLOWMETER	6.10		48	OT			
300203	FCP -3 O2 FLOWMETER	6.11		49	OT			
300301	FCP -1 H2 FLOWMETER	5.85		47	OT			
300302	FCP -2 H2 FLOWMETER	6.10		48	OT			
300303	FCP -3 H2 FLOWMETER	6.11		49	OT			
300401	FCP1 EL CTL-ORBT	4.68		38	OT			
300402	FCP2 EL CTL-ORBT	4.68		39	OT			
300403	FCP3 EL CTL-ORBT	4.63		40	OT			
300501	FCP1 PMP-H2O SENSOR	236.08		201	OT	180.50		
300502	FCP2 PMP-H2O SENSOR	236.34		202	OT		180.80	
300503	FCP3 PMP-H2O SENSOR	240.02		203	OT			183.50
310301	O2 TANK1 SIG COND QTY	2.18		42	OT			
310302	H2 TANK1 SIG COND QTY	2.18		42	OT			
310303	O2 TANK2 SIG COND QTY	2.19		41	OT			
310304	H2 TANK2 SIG COND QTY	2.38		41	OT			
311701	O2 TANK 1 HEATER A1	210.90		7	OT			
311702	O2 TANK 1 HEATER A2	210.50		7	OT			
311703	O2 TANK 2 HEATER A1	222.50		6	OT			
311704	O2 TANK 2 HEATER A2	220.70		9	OT			
311801	O2 TANK 1 HEATER B1	211.70		9	OT			
311802	O2 TANK 1 HEATER B2	215.40		9	OT			
311803	O2 TANK 2 HEATER B1	212.50		8	OT			
311804	O2 TANK 2 HEATER B2	222.70		8	OT			
320301	APU1 CNTLR-OPERATE	6.59	*	66	F4			
320302	APU2 CNTLR-OPERATE	6.59	*	67	F5			

Figure 6.4-4. - Continued

320303	APU3 CNTRLR-OPERATE	6.59	*	68	F6			
325202	FUEL FEEDLINE HTR 1A	3.18		85	OT			
325204	FUEL FEEDLINE HTR 2B	3.81		86	OT			
325206	FUEL FEEDLINE HTR 3B	2.24		84	OT			
325302	FUEL SERVLINE HTR 1B	24.19		85	OT			
325304	FUEL SERVLINE HTR 2B	17.89		86	OT			
325306	FUEL SERVLINE HTR 3B	24.19		84	OT			
325402	FUEL DRN LINE HTR 1B	2.22		85	OT			
325404	FUEL DRN LINE HTR 2B	2.88		86	OT			
325406	FUEL DRN LINE HTR 3B	1.77		84	OT			
325801	APU 1 PRI H2O HTR 1A	14.46		75	OT			
325803	APU 2 PRI H2O HTR 1A	4.19		76	OT			
325805	APU 3 PRI H2O HTR 1A	13.69		77	OT			
325901	APU 1 SEC H2O HTR 2A	16.16		75	OT			
325903	APU 2 SEC H2O HTR 2A	7.00		76	OT			
325905	APU 3 SEC H2O HTR 2A	7.00		77	OT			
326301	GG H2O TK LN HT 504A	6.39		75	OT			
326303	GG H2O TK LN HT 503A	11.60		77	OT			
400101	CABIN FAN A	646.16		203	HX			
400201	CAB AIR TEMP CNT PRI	4.42		214	AC			
400400	CAB AIR THP CN EL-PR	5.23	20.00	214	AC		16.90A	494.00
400502	CAB AIR SIGNAL COND	4.84		212	AC		4.00A	
400600	ARS HUMIDITY SEP B	37.25		202	AC	3.70B		
400701	ARS HUM SEP SIG CND	2.35		217	AC		28.50	
400702	PP02 CNTRLR-SYS 1	.70		16	AC			1.80A
400711	PP02 CNTRLR-SYS 2	.70		17	AC			
400712	O2 CONTROL VLV-SYS 1	4.69	50.00	16	AC			
400731	O2 CONTROL VLV-SYS 2	4.71	50.00	17	AC			
400732	CABIN PRESS SENSOR	.70		16	AC			
400751	CAB PRESS DECCY SENS	2.00		17	AC			
400752	O2 FLOW SENSOR-SYS 1	1.00		16	AC			
400753	O2 FLOW SENSOR-SYS 2	1.00		17	AC			
400754	N2 FLOW SENSOR-SYS 1	1.00		16	AC			
400761	N2 FLOW SENSOR-SYS 2	1.00		17	AC			
400762	PP02 SENSOR-SYS 1	.80		16	AC			
400763	PP02 SENSOR-SYS 2	.80		17	AC			
400802	PP02 SENSOR-SYS 3	.80		17	AC			
400803	AVION FAN-BAY 1 (A)	219.61		202	A1		168.00	
400806	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400901	AVION BAY 1 SIG COND	219.73		201	A3	168.00		
400902	AVION BAY 2 SIG COND	3.14		218	AC			2.40B
400903	AVION BAY 3 SIG COND	2.35		212	AC	1.80B		
401001	SMOKE DT SNR-L FLT D	3.27		215	AC		2.50B	
401002	SMOKE DT SNR-R FLT D	6.49		16	OT			
401003	S D SNR A - BAY 1	6.56		16	OT			
401004	S D SNR B - BAY 1	6.51		18	OT			
401005	S D SNR A - BAY 2	6.49		17	OT			
401006	S D SNR B - BAY 2	6.49		16	OT			
401007	S D SNR A - BAY 3	6.56		18	OT			
401008	S D SNR B - BAY 3	6.51		17	OT			
401009	S D SNR - CABIN	6.49		16	OT			
401102	THU FAN B	6.56		18	OT			
401200	THU FAN SIG COND	63.53		202	WC		48.60	
401303	H2O PUMP - LOOP 2	2.35		218	AC			
401501	H2O BYPASS CN SC-PRI	250.88		203	AC		1.80B	
401502	H2O BYPASS CN SC-SEC	7.71		217	AC		191.80	
		7.72		211	AC	5.90A	5.90A	

Figure 6.4-4. - Continued

402901	FREON PMP LP 1-A ASC	489.17	*	201	FP	374.00		
402903	FREON PMP LP 2-A ASC	489.20	*	201	FP		374.00	
403601	FREON COOL LP1 INSTR	6.54		215	OT		5.00B	
403602	FREON COOL LP2 INSTR	6.54		218	OT			5.00B
403701	FES CONTROLLER PRI A	7.47		86	OT			
403801	FES HI LD PLSR V-PRI	28.50		89	OT			
403811	FES HI LD ISO VL-PRI	28.50		89	OT			
403901	FES TOP G PLSR V-PRI	28.50		89	OT			
403921	TPNG V HLONG COIL-PR	3.64		89	OT			
408201	SEC FWTR LN HTA-TS11	1.49		86	OT			
408203	SEC FWTR LN HTA-TS12	1.19		86	OT			
408205	SEC FWTR LN HTA-TS13	3.56		49	OT			
408207	SEC FWTR LN HTA-TS3	1.79		86	OT			
408501	HI LD DUCT HTR1 SEC1	563.60		47	OT			
408601	HI LD DUCT HTR1 SEC2	254.60		47	OT			
408701	HI LD DCT NOZ HT GP1	130.70		47	OT			
409001	TOP G DUCT HTR1 SEC1	378.90		47	OT			
409101	TOP G DUCT HTR1 SEC2	468.60		47	OT			
409201	TOP G DUCT HTR1 SEC3	62.80		84	OT			
409301	TOP G DUCT HTR1 SEC4	64.80		84	OT			
409401	SONIC LFT NOZ HTR 1A	25.00		84	OT			
409501	SONIC RHT NOZ HTR 2A	24.70		85	OT			
500801	RESVOIR -1 VOL SNSR	1.83		212	OT	1.40B		
500802	RESVOIR -2 VOL SNSR	1.83		215	OT		1.40B	
500803	RESVOIR -3 VOL SNSR	1.83		218	OT			1.40B
503701	H2O BLR1 CNT LOGIC A	4.71		217	OT			1.40B
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79		214	OT		2.90A	
503801	H2O BOILER 1 CNTL A	.77		65	OT			
503803	H2O BOILER 2 CNTL A	.66		63	OT			
503805	H2O BOILER 3 CNTL A	.77		64	OT			
505301	WSR TK/BOILER HTR 1A	7.31		65	OT			
505303	WSR TK/BOILER HTR 2A	8.35		63	OT			
505305	WSR TK/BOILER HTR 3A	8.58		64	OT			
522701	BRK/SKID CNTL BOX A	17.56		30	A1			
522702	BRK/SKID CNTL BOX B	17.56		29	A2			
600301	ESCAPE SUIT VT ASY L	94.49		11	AC			
600302	ESCAPE SUIT VT ASY R	92.92		10	AC			
				TOTAL INVERTER WATTS	=	2058.24	1407.69	1955.09
				TOTAL 3 PHASE WATTS	=	958.60	591.00	1245.40
				TOTAL A PHASE WATTS	=	250.60	163.80	20.80
				TOTAL B PHASE WATTS	=	201.40	175.60	68.40
				TOTAL C PHASE WATTS	=	163.00	160.00	160.00

Figure 6.4-4. - Concluded

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TOTAL WATTS = 23066.32

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 000:32:21.1

Figure 6.4-5.- Vehicle configuration at 52 minutes MET

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 000:52:00.1
--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-5. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	119.30			28	WC			
010102	IMU =2 OPERATE	119.31	*		29	WC			
010103	IMU =3 OPERATE	119.31	*		30	WC			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010801	ATVC =1 PWR SUP-OPER	38.90	*		66	F4			
010802	ATVC =2 PWR SUP-OPER	38.90	*		67	F5			
010803	ATVC =3 PWR SUP-OPER	38.90	*		68	F6			
010804	ATVC =4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC =1-ISO VLV DRVR	.79			65	F4			
010812	ATVC =2-ISO VLV DRVR	.79			63	F5			
010813	ATVC =3-ISO VLV DRVR	.79			64	F6			
010814	ATVC =4-ISO VLV DRVR	.79			76	F6			
010821	ATVC =1 ACTS-OPER	3.30	*		66	OT			
010822	ATVC =2 ACTS-OPER	3.30	*		67	OT			
010823	ATVC =3 ACTS-OPER	3.30	*		68	OT			
010824	ATVC =4 ACTS-OPER	3.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	.40	*		68	F4			
011002	ASA =2 IVD/BF-OPER	.40	*		66	F5			
011003	ASA =3 IVD/BF-OPER	.40	*		67	F6			
011004	ASA =4 IVD-OPER	.40	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	16.41	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	16.41	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	16.40	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.40	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	RGA =1 OPR	24.79	*		78	FA			
011302	RGA =2 OPR	25.08	*		64	FA			
011303	RGA =3 OPR	25.10	*		49	FA			
011304	RGA =4 OPR	24.82	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	THC-LH	5.14			19	AC			
011701	RHC-LH	4.77			19	AC			
011702	RHC-RH	4.80			20	AC			
011801	RPTA-LH	1.22			19	AC			
011802	RPTA-RH	1.22			20	AC			
011901	SBTC-LH	1.62			19	AC			

Figure 6.4-5. - Continued

011902	SBTC-BH	1.63		20	AC			
020802	NTWK SIG PROCESSOR 2	28.18		34	W3			
021101	S-BAND FM XMITR =1	10.54	15.00	33	W3			
021200	S-BAND FM SIG PRO-ORR	59.09	15.00	36	A3			
021302	S-RND XPNDR=2-DIRECT	20.82		34	W3			
021401	S-BND PWR AMP 1-SBY	383.41		21	W3			
021402	S-BND PWR AMP 2-OPR	12.90		24	W3			
021501	S-BD PREAMP 1-SBY	18.92		33	W3			
021502	S-BD PREAMP 2-OPR	5.66		34	W3			
021600	S-BND ANT SW-ASY-QES	209.15		21	A3			
021701	TACAN =1 SEARCH	209.15		213	A1	160.00C	160.00C	160.00C
021702	TACAN =2 SEARCH	209.49		216	A2			
021703	TACAN =3 SEARCH	21.53		219	A3			
022101	RADAR ALTIMETER =1	23.62		17	W1			
022102	RADAR ALTIMETER =2	38.81		42	W2			
024101	AUDIO CENTER 1	3.40		42	W1			
024201	AUDIO TERM UN-PLT RT	3.41		41	AC			
024202	AUDIO TERM UN-COR LT	3.46		10	AC			
024203	AUDIO TERM UNIT-MSS	3.64		15	AC			
024204	AUDIO TERM UNIT-PS	1.74	80.00	10	AC			
024701	SPKR MIKE UNIT -OS	1.76	80.00	11	AC			
024702	SPKR MIKE UNIT-MID-DK	.68		42	AC			
024801	AUDIO INTF UNIT-PLT	.68		41	AC			
024802	AUDIO INTF UNIT-CMDR	.68		41	AC			
024910	MULTIPLE HDSET ADPTR	4.98	25.00	11	OT			
028101	TV CAM HTR-FWD PLB	4.97	25.00	10	OT			
028102	TV CAM HTR-AFT PLB	4.97	25.00	15	OT			
028105	PAN TLT HTR-KEEL BAY	2.05	25.00	11	OT			
028201	PAN TLT HTR-AFT BAY	2.05	25.00	10	OT			
028202	PAN TLT HTR-AFT BAY	2.05	25.00	15	OT			
028203	PAN TLT HTR-KEEL BAY	17.35		19	AC			
030101	ADI =1 FWD LH	17.45		20	AC			
030102	ADI =2 FWD RH	27.31		16	AC			
030201	HST =1	27.42		17	AC			
030202	HST =2	7.16		16	AC			
030301	AMT =1	7.19		17	AC			
030302	AMT =2	32.12		16	HX			
030401	ALPHA-MACH-EL-UNIT-1	32.25		17	HX			
030402	ALPHA-MACH-EL-UNIT-2	7.16		16	AC			
030501	AVVI =1	7.19		17	AC			
030502	AVVI =2	25.17		16	AC			
030601	ALT VER VEL EL UN =1	25.27		17	HX			
030602	ALT VER VEL EL UN =2	9.21		16	AC			
030701	TAPE MTR M1 (MPS PR)	6.14		16	AC			
030702	TAPE MTR M2 (MPS PR)	12.28		17	AC			
030703	TAPE MTR M3 (MPS PR)	9.24		17	AC			
030705	TAPE MTR M1 (HYD PR)	9.24		17	AC			
030706	TAPE MTR M2 (HYD QTY)	9.24		17	AC			
030707	TAPE MTR M3 (APU)	6.16		17	AC			
030708	TAPE MTR M4 (APU OIL)	17.40		16	AC			
031300	SPT	4.85		18	AC			
031400	OMS/RCS PROP QTY IND	20.85		41	A3			
031501	C-W PWR SUP A-STBY	13.19		42	A3			
031502	C-W PWR SUP B-STBY	3.58		16	AC			
031701	MISSION TIMER =1 FWD	3.70		17	AC			
031702	MISSION TIMER =2 AFT	3.08		17	AC			
031801	EVENT TIMER =1 FWD							

Figure 6.4-5. - Continued

031802	EVENT TIMER =2 AFT	3.87	16	AC			
032201	DDU =1 FWD LH	120.00	19	HX			
032202	DDU =2 FWD RH	120.00	20	HX			
032701	CRT DU =1 - LF	86.36	22	HX			
032702	CRT DU =2 - RF	86.37	23	HX			
032703	CRT DU =3 - CF	86.38	24	HX			
032601	DEU =1	202.00	22	HX			
032602	DEU =2	202.00	23	HX			
032603	DEU =3	202.00	24	HX			
033101	PANEL LTS - LEFT/CTR	255.31	211	AC	196.00A		
033102	PANEL LTS - LFT/OVHD	231.37	212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	173.86	215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	172.55	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	15.66	218	AC			57.80B
033202	INSTR LTS - OVERHEAD	35.95	215	AC			
033203	INSTR LTS - RIGHT	65.07	211	AC	49.70A	27.50B	
033301	NUMERIC LIGHTS-FWD	22.88	212	AC	17.50B		
034202	GLARSHLD - FLDLT-LEFT	32.15	41	AC			
034203	GLARSHLD - FLDLT-RGHT	32.02	42	AC			
034204	LFT OVERHEAD FLDLT A	23.11	17	AC			
034205	RHT OVERHEAD FLDLT A	23.31	18	AC			
034206	CONSOLE FLDLT-CMDLL	16.48	16	AC			
034207	CONSOLE FLDLT-PLT	16.95	17	AC			
035600	C+W ANNUN ASSY-OPR	7.79	41	AC			
037200	CICU - OPR	6.80	43	A1			
037301	ACA =1	13.20	16	AC			
037302	ACA =2/3	26.64	17	AC			
037303	ACA =4/5	24.00	18	AC			
037401	ANNUN 1	2.84	16	AC			
037402	ANNUN 2/3	5.30	17	AC			
037403	ANNUN 4/5	4.47	18	AC			
040301	PCM MASTER UNIT =1	55.00	30	W1			
040401	OPS-1 RECORDER-REPLY	15.91	28	W2			
040402	OPS-2 RECORDER-REPLY	52.42	29	W2			
040403	PAYLD RECORDER-REPLY	52.42	30	W1			
040501	DED SIG CND OF1- FWD	22.80	19	W1			
040502	DED SIG CND OF2- FWD	32.60	20	W2			
040503	DED SIG CND OF3- FWD	26.80	20	W3			
040601	DED SIG CND OA1- AFT	36.20	66	F4			
040602	DED SIG CND OA2- AFT	29.10	67	F5			
040603	DED SIG CND OA3- AFT	29.10	68	F6			
040900	MTU - OPR	10.01	43	W4			
041201	DSC OL1 OMS/RCS	23.30	78	OT			
041202	DSC OL2 OMS/RCS	21.40	80	OT			
041203	DSC OR1 OMS/RCS	23.30	78	OT			
041204	DSC OR2 OMS/RCS	21.40	79	OT			
041301	DSC OM1 MID FUS	13.90	19	OT			
041302	DSC OM2 MID FUS	22.10	19	OT			
041400	DSC OF4 FWD RCS	26.90	61	OT			
041601	WRND S/C =1 (BAY4)	.40	61	OT			
041602	WRND S/C =2 (BAY4)	.40	63	OT			
041603	WRND S/C =3 (BAY4)	.40	63	OT			
041604	WRND S/C =4 (BAY4)	.40	64	OT			
041701	WRND S/C =1 (BAY5)	.40	64	OT			
041702	WRND S/C =2 (BAY5)	.40	64	OT			
050100	PWR DIST ASSY FWD	10.35	12	OW			
050201	PWR DIST ASSY =1 MID	9.60	44	D1			

Figure 6.4-5. - Continued

050202	PLR DIST ASSY -2 MID	9.60	44	D2
050203	PLR DIST ASSY -1 MID	8.60	44	D2
050301	PCM MASTER UNIT -1	55.00	24	DM
050401	DSC FWD -1-SOF1	22.20	12	DM
050402	DSC FWD -2-SOF2	22.20	12	DM
050403	DSC FWD -3-SOF3	22.50	12	DM
050501	DSC UNIT #1 - SCL1	16.60	44	D1
050502	DSC UNIT #2 - SCL2	24.70	44	D1
050503	DSC UNIT #3 - SCL3	16.60	44	D1
050504	DSC UNIT #4 - SCL4	24.70	44	D1
050505	DSC UNIT #5 - SCL5	46.70	44	D1
050506	DSC UNIT #1 - SDR1	16.60	44	D2
050507	DSC UNIT #2 - SDR2	24.70	44	D2
050508	DSC UNIT #3 - SDR3	16.60	44	D2
050509	DSC UNIT #4 - SDR4	46.80	44	D2
050601	DSC UNIT #1 - SDC1	16.60	44	D3
050602	DSC UNIT #2 - SDC2	23.90	44	D3
050603	DSC UNIT #3 - SDC3	16.60	44	D3
050604	DSC UNIT #4 - SDC4	17.70	44	D3
050605	DSC UNIT #5 - SDC5	16.60	44	D3
050701	WB FDM 1A (FMF1)-FWD	25.86	12	DM
050702	WB FDM 1B (FMF1)-FWD	25.86	12	DM
050703	WB FDM 2A (FMF2)-FWD	25.86	12	DM
050704	WB FDM 2B (FMF2)-FWD	25.86	12	DM
050705	WB FDM 3A (FMF3)-FWD	25.86	12	DM
050706	WB FDM 3B (FMF3)-FWD	25.86	12	DM
050801	WDBND FDM UN1-MID L1	24.10	47	D1
050802	WDBND FDM UN1-MID L1	24.64	48	D1
050803	WDBND FDM UN2-MID L1	24.10	47	D1
050804	WDBND FDM UN2-MID L1	24.64	48	D1
050805	WDBND FDM UN1-MID R2	24.10	47	D2
050806	WDBND FDM UN1-MID R2	24.64	48	D2
050807	WDBND FDM UN2-MID R2	24.10	47	D2
050808	WDBND FDM UN2-MID R2	24.64	48	D2
050811	WDBND FDM UN1-MID L3	24.10	47	D3
050812	WDBND FDM UN1-MID L3	24.10	47	D3
050813	WDBND FDM UN2-MID L3	48.20	47	D3
050823	WDBND FDM UN2-MID L3	1.23	47	D3
050831	LOAD SEN ACCEL-1 FWD	3.62	12	DM
050832	LOAD SEN ACCEL-2 FWD	3.62	12	DM
050833	LOAD SEN ACCEL-MR 2	13.50	47	D2
050834	LOAD SEN ACCEL-MR 3	10.35	48	D2
050930	PCM RCDR-RECD-SERIAL	57.94	12	DM
051011	WBSC FWD (A131)-100%	2.90	12	DM
051012	WBSC FWD (A131)-ASCT	5.07	12	DM
051020	WBSC FWD (A132)-WBH	5.79	12	DM
051031	WBSC FWD (A133)-ASCT	7.41	12	DM
051032	WBSC FWD (A133)-WBH	7.97	12	DM
051041	WBSC FWD (A134)-WBH	9.83	12	DM
051111	WBSC LM1 (A135)-WBH	2.16	48	D1
051112	WBSC LM1 (A135)-WBH	2.17	47	D1
051121	WBSC LM1 (A136)-WBH	3.45	48	D1
051122	WBSC LM1 (A136)-WBH	3.76	47	D1
051131	WBSC LM1 (A137)-WBH	5.22	48	D1
051132	WBSC LM1 (A137)-WBH	4.43	47	D1
051141	WBSC LM1 (A138)-WBH	5.84	48	D1
051142	WBSC LM1 (A138)-WBH	5.11	47	D1

Figure 6.4-5. - Continued

051211	WBSC RM2 (A139)-WBH	2.76	48	D2
051212	WBSC RM2 (A139)-WBH	3.08	47	D2
051221	WBSC RM2 (A140)-WBH	3.15	48	D2
051222	WBSC RM2 (A141)-WBH	2.70	47	D2
051231	WBSC RM2 (A141)-WBH	4.83	48	D2
051232	WBSC RM2 (A141)-WBH	4.43	47	D2
051241	WBSC RM2 (A142)-WBH	3.15	48	D2
051242	WBSC RM2 (A142)-WBH	5.40	47	D2
051311	WBSC LM3 (A143)-ASCT	8.48	47	D3
051321	WBSC LM3 (A144)-ASCT	2.41	47	D3
051322	WBSC LM3 (A144)-WBH	6.75	47	D3
051331	WBSC LM3 (A145)-ASC	3.76	47	D3
051332	WBSC LM3 (A145)-100%	2.70	48	D3
051333	WBSC LM3 (A145)-100%	9.15	47	D3
051340	WBSC LM3 (A146)-ASCT	9.45	47	D3
051401	DC-DC XDUCERS-FWD	15.62	12	01
051402	DC-DC XDUCERS-FWD	5.59	47	01
051403	DC-DC XDUCERS-FWD	5.98	47	01
051404	DC-DC XDUCERS-MID L1	29.50	47	01
051405	DC-DC XDUCERS-MID L1	7.90	47	01
051406	DC-DC XDUCERS-MID L1	5.32	48	01
051407	DC-DC XDUCERS-MID R2	27.74	47	01
051408	DC-DC XDUCERS-MID R2	1.93	47	01
051409	DC-DC XDUCERS-MID R2	3.55	48	01
051411	DC-DC XDUCERS-MID L3	7.77	47	01
051412	DC-DC XDUCERS-MID L3	38.17	47	01
051501	SGSC FWD (A161)-100%	23.90	12	04
051502	SGSC FWD (A161)-100%	16.97	12	04
051503	SGSC FWD (A161)-WBH	5.69	12	04
051504	SGSC FWD (A161)-WBH	15.93	12	04
051611	SGSC HL1 (A162)-100%	69.46	47	01
051612	SGSC HL1 (A162)-WBH	14.85	47	01
051613	SGSC HL1 (A162)-WBH	15.18	48	01
051621	SGSC HL1 (A163)-100%	63.14	47	01
051622	SGSC HL1 (A163)-WBH	30.36	48	01
051623	SGSC HL1 (A163)-WBH	7.42	47	01
051624	SGSC HL1 (A163)-100%	7.59	48	01
051625	SGSC HL1 (A163)-100%	29.69	47	01
051631	SGSC HR2 (A164)-100%	112.94	48	02
051632	SGSC HR2 (A164)-100%	22.77	48	02
051641	SGSC HR2 (A165)-100%	102.20	48	02
051642	SGSC HR2 (A165)-100%	37.94	48	02
051651	SGSC HR2 (A169)-100%	69.97	48	02
051652	SGSC HR2 (A169)-WBH	30.36	48	02
051653	SGSC HR2 (A169)-WBH	22.27	47	02
051654	SGSC HR2 (A169)-100%	30.36	48	02
051661	SGSC HL3 (A166)-100%	75.30	48	03
051662	SGSC HL3 (A166)-WBH	29.69	47	03
051671	SGSC HL3 (A167)-100%	59.13	48	03
051672	SGSC HL3 (A167)-WBH	44.54	47	03
051673	SGSC HL3 (A167)-100%	22.77	48	03
051700	MDM DF1 - FWD	53.90	12	04
051801	MDM DL1 - MID LEFT 1	50.00	44	01
051802	MDM DL2 - MID LEFT 1	50.20	44	01
051803	MDM DR1 - MID RGHT 2	50.00	44	02
051804	MDM DR2 - MID RGHT 2	52.80	44	02
051805	MDM OC1 - MID LEFT 3	49.10	44	03

Figure 6.4-5. - Continued

051806	MDM DC2 - MID LEFT 3	52.50		44	D3			
051988	5-RAND-FM-XMITR-BFI	124.18		12	D4			
052200	ARS DFI SIGNAL COND	8.10		215	OT		6.208	1.50A
052300	ATCS DFI SIGNAL COND	1.96		217	OT			
052401	DFI FREON PUMP #1	306.06		201	D1	234.00		
052500	3-AXIS-ACCEL	1.76		12	OT			
060301	MEC=1-AVERAGE	84.00	*	78	F4			
060302	MEC=2-AVERAGE	84.00	*	79	F5			
060901	GRND CHDS INTFC UN A	27.85		33	W3			
061001	INV DIST+CTL ASY1-DC	1.58		41	A1			
061002	INV DIST+CTL ASY1-AC	2.75		201	A1	2.10		
061003	INV DIST+CTL ASY2-DC	1.58		42	A2			
061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10		
061005	INV DIST+CTL ASY3-DC	1.58		43	A3			
061006	INV DIST+CTL ASY3-AC	2.75		203	A3			2.10
061701	CURR SENSOR-MIDBODY-1	3.36		7	OT			
061702	CURR SENSOR-MIDBODY-2	3.41		8	OT			
061703	CURR SENSOR-MIDBODY-3	3.41		9	OT			
061704	CURR SENSOR-PL MN B	1.09		64	OT			
061705	CURR SENSOR-PL MN C	1.09		65	OT			
061706	CURR SENSOR-LH ADP	1.06		22	OT			
061707	CURR SENSOR-LH ADP	1.06		23	OT			
061708	CURR SENSOR-RH ADP	1.06		23	OT			
061709	CURR SENSOR-RH ADP	1.06		23	OT			
061801	H202 CRYO ASY1A-QUES	11.65		7	FM			
061802	H202 CRYO ASY1B-QUES	11.85		9	FM			
061811	H202 CRYO ASY2A-QUES	11.83		8	FM			
061812	H202 CRYO ASY2B-QUES	11.85		9	FM			
062101	MTR CNTL ASSY FWD =1	3.89	15.00	22	W1			
062102	MTR CNTL ASSY FWD =2	3.60	12.50	23	W2			
062103	MTR CNTL ASSY FWD =3	4.89	18.90	24	W3			
062201	MTR CNTL ASSY MID =1	11.82	22.80	44	FM			
062202	MTR CNTL ASSY MID =2	12.29	13.50	45	FM			
062203	MTR CNTL ASSY MID =3	10.28	20.20	44	FM			
062204	MTR CNTL ASSY MID =4	12.15	13.20	45	FM			
062301	MTR CNTL ASSY AFT =1	8.90	20.00	63	F4			
062302	MTR CNTL ASSY AFT =2	8.40	20.70	64	F5			
062303	MTR CNTL ASSY AFT =3	15.13	30.60	65	F6			
062401	LOAD CNTL ASSY FWD1	23.42	28.00	32	W1			
062402	LOAD CNTL ASSY FWD2	25.57	30.61	33	W2			
062403	LOAD CNTL ASSY FWD3	25.20	30.18	34	W3			
062501	LOAD CNTL ASSY AFT1	70.66	25.61	84	F4			
062502	LOAD CNTL ASSY AFT2	71.03	27.47	85	F5			
062503	LOAD CNTL ASSY AFT3	77.98	34.81	86	F6			
062601	PCA FWD =1	93.99	30.03	22	W1			
062602	PCA FWD =2	39.60	12.65	23	W2			
062603	PCA FWD =3	43.57	13.93	24	W3			
062701	PCA MID =1	39.14	35.31	47	FM			
062702	PCA MID =2	47.56	41.96	48	FM			
062703	PCA MID =3	32.40	28.43	49	FM			
062801	PCA AFT =1	29.03	34.55	72	F4			
062802	PCA AFT =2	28.41	33.81	73	F5			
062803	PCA AFT =3	25.92	30.85	74	F6			
062804	PCA AFT =4	25.80	30.68	60	F4			
062805	PCA AFT =5	30.15	35.86	61	F5			
062806	PCA AFT =6	19.11	22.73	62	F6			
070101	GPC CPU#1-RUN	313.00		31	A1			

Figure 6.4-5. - Continued

070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	313.00	*	31	A2
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	340.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	340.00	*	31	A2
070301	MDM FF1	60.00		29	M1
070302	MDM FF2	60.00		29	M2
070303	MDM FF3	55.50		30	M3
070304	MDM FF4	58.60		29	M2
070401	MDM FA1	54.80		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6
070901	MM =1 TAPE OPER	19.19	*	22	M1
070902	MM =2 TAPE OPER	19.19	*	23	M2
071001	MDM OFI 1	46.80		19	M1
071002	MDM OFI 2	46.80		19	M2
071003	MDM OFI 3	47.40		21	M3
071004	MDM OFI 4 FLT DECK	40.40		21	MC
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		28	M1
071402	MDM PL 2	56.90		29	M2
071501	ENG INTRFC UN =1	49.30		66	F4
071502	ENG INTRFC UN =2	49.30		67	F5
071503	ENG INTRFC UN =3	49.30		68	F6
071602	DBIA#1 SRB-HI RATE	10.13	*	78	F4
071604	DBIA#2 SRB-HI RATE	10.13	*	78	F5
075001	GPC CNTLR 1 PS A	6.83		31	A1
075002	GPC CNTLR 1 PS B	6.83		31	A1
075003	GPC CNTLR 2 PS A	6.83		31	A2
075004	GPC CNTLR 2 PS B	6.83		31	A2
075005	GPC CNTLR 3 PS A	6.83		31	A2
075006	GPC CNTLR 3 PS B	1.31		31	A2
203701	ENG 1 FASCOS SYS A	22.75		63	OT
203702	ENG 1 FASCOS SYS B	22.75		64	OT
203703	ENG 1 FASCOS SYS C	22.75		65	OT
203704	ENG 2 FASCOS SYS A	22.75		63	OT
203705	ENG 2 FASCOS SYS B	22.75		64	OT
203706	ENG 2 FASCOS SYS C	22.75		65	OT
203707	ENG 3 FASCOS SYS A	22.75		63	OT
203708	ENG 3 FASCOS SYS B	22.75		64	OT
203709	ENG 3 FASCOS SYS C	22.75		65	OT
210701	LP ACT GMBL INST/LOG	7.00		72	OT
210702	RP ACT GMBL INST/LOG	7.00		73	OT
210703	RP ACT GMBL INST/LOG	7.00		74	OT
210704	RP STB GMBL INST/LOG	7.00		72	OT
211501	BIPROP VL1 LP POS ID	1.40		72	OT
211502	BIPROP VL2 LP POS ID	1.40		73	OT
211503	BIPROP VL1 RP POS ID	1.40		72	OT
211504	BIPROP VL2 RP POS ID	1.40		74	OT
212106	TK ISO/XFD VL TLKBC	.30		72	AC

Figure 6.4-5. - Continued

212401	QUAN GAGE TOT-LP-OPR	9.16	*	78	OT
212402	QUAN GAGE TOT-OP-OPR	9.16	*	80	OT
215101	GSE SR FN HT A-43-LP	6.00		13.95	72 OT
215112	RCS HSNG HT A1-41-LP	12.88		10.89	72 OT
215113	RCS HSNG HT A2-41-LP	11.12		10.89	72 OT
215301	GSE SR FN HT A-44-RP	6.00		13.95	73 OT
215312	RCS HSNG HT A1-42-RP	12.88		10.89	73 OT
215313	RCS HSNG HT A2-42-RP	11.12		10.89	73 OT
217001	XFD OX/FU FLXL HTA-L	5.00		14.08	72 OT
217003	XFD OX/FU FLXL HTA-R	5.00		14.08	72 OT
217101	XFD OX/FU LNE HT-A-L	16.00		25.85	72 OT
217103	XFD OX/FU LNE HT-A-R	16.00		25.85	72 OT
217105	XFD OX/FU LNE HT-A-C	20.00		22.15	72 OT
217201	FU HIPT BLDLN HT-A-A	12.00		29.47	72 OT
217203	FU HIPT BLDLN HT-A-M	5.00		20.58	72 OT
217301	OX HIPT BLDLN HT-A-A	12.00		29.47	72 OT
217303	OX HIPT BLDLN HT-A-M	5.00		20.58	72 OT
217401	LOFT OXFU DRLN HTA-L	3.00		37.97	72 OT
217403	LOFT OXFU DRLN HTA-R	3.00		37.97	72 OT
220101	FWD THRUSTER F1F(-X)	.10		.15	22 OT
220105	FWD THRUSTER F2F(-X)	.10		.15	23 OT
220109	FWD THRUSTER F3F(-X)	.10		.15	24 OT
220111	FWD THRUSTER F3L(+Y)	.10		.15	24 OT
220201	AFT THRUSTER R1R(-Y)	.14		.20	78 OT
220204	AFT THRUSTER R2R(-Y)	.14		.20	80 OT
220207	AFT THRUSTER R3R(-Y)	.14		.20	79 OT
220214	AFT THRUSTER L1L(+Y)	.14		.20	78 OT
220217	AFT THRUSTER L2L(+Y)	.14		.20	80 OT
220221	AFT THRUSTER L3L(+Y)	.14		.20	79 OT
225208	AFT RCS HT-ENG R1U+Z	1.00		4.65	85 OT
225209	AFT RCS HT-ENG R2U+Z	1.00		4.65	84 OT
225211	AFT RCS HT-ENG R4U+Z	1.00		4.65	86 OT
225212	AFT RCS HT-ENG R1A+X	.60		1.86	85 OT
225213	AFT RCS HT-ENG R3A+X	2.00		6.19	86 OT
225308	AFT RCS HT-ENG L1U+Z	1.00		4.65	85 OT
225309	AFT RCS HT-ENG L2U+Z	1.00		4.65	84 OT
225311	AFT RCS HT-ENG L4U+Z	1.00		4.65	86 OT
225312	AFT RCS HT-ENG L1A+X	.60		1.86	85 OT
225313	AFT RCS HT-ENG L3A+X	2.00		6.19	86 OT
225501	AFT VRN HT-ENG R5D-Z	.80		7.41	86 OT
225502	AFT VRN HT-ENG R5R-Y	4.00		37.03	86 OT
225503	AFT VRN HT-ENG L5D-Z	.80		7.41	86 OT
225504	AFT VRN HT-ENG L5L+Y	4.00		37.03	86 OT
300201	FCP #1 O2 FLOWMETER	5.98			47 OT
300202	FCP #2 O2 FLOWMETER	6.21			48 OT
300203	FCP #3 O2 FLOWMETER	6.24			49 OT
300301	FCP #1 H2 FLOWMETER	5.96			47 OT
300302	FCP #2 H2 FLOWMETER	6.21			48 OT
300303	FCP #3 H2 FLOWMETER	6.24			49 OT
300401	FCP1 EL CTL-ORBT	4.84			38 OT
300402	FCP2 EL CTL-ORBT	4.82			39 OT
300403	FCP3 EL CTL-ORBT	4.74			40 OT
300501	FCP1 PMP+H2O SENSOR	236.08		201	OT
300502	FCP2 PMP+H2O SENSOR	236.34		202	OT
300503	FCP3 PMP+H2O SENSOR	240.02		203	OT
305602	H2O NO2 BARREL HTR B	2.80	49.12	49	OT
305702	H2O NO2 ORIFICE HT B	22.40	46.67	49	OT
				180.50	180.80
					183.50

Figure 6.4-5. - Continued

[illegible]

Figure 6.4-5. - Continued

401000	S D SNSR - CABIN	6.73	18	OT			
401102	IMU FAN B	63.53	202	MC	48.60		
401200	IMU FAN SIG COND	2.35	218	AC			1.80B
401303	H2O PUMP - LGOP 2	250.88	203	MC			191.80
401501	H2O BYPASS CN SC-PPI	7.71	217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.22	211	AC	5.90A		
402901	FREON PMP LP 1-A ASC	489.17	201	FP	374.00		
402903	FREON PMP LP 2-A ASC	469.20	203	FP		374.00	
403601	FREON COOL LP1 INSTR	6.54	215	OT	5.00B		
403602	FREON COOL LP2 INSTR	6.54	218	OT		5.00B	
403701	FES CONTROLLER PRI A	7.66	86	OT			
403801	FES HI LD PL1 V-PRI	29.20	89	OT			
403811	FES HI LD ISC VL-PPI	29.20	89	OT			
403901	FES TOPIC PL1 V-PRI	29.20	89	OT			
403921	TPNG V HLDNG COIL-PR	3.73	89	OT			
406000	VACUUM VNT NOZ HTR	11.40	5	OT			
408107	PRI FWTR LN HTA-TSS	2.00	84	OT			
408207	SEC FWTR LN HTA-TSS	4.00	86	OT			
408501	HI LD DUCT HTR1 SEC1	553.60	47	OT			
408601	HI LD DUCT HTR1 SEC2	254.50	47	OT			
408701	HI LD DCT NOZ HT GP1	130.70	47	OT			
409101	TOPIC DUCT HTR1 SEC1	376.90	47	OT			
409103	TOPIC DUCT HTR1 SEC2	468.60	47	OT			
409201	TOPIC DUCT HTR1 SEC3	62.80	84	OT			
409301	TOPIC DUCT HTR1 SEC4	64.80	84	OT			
409401	SONIC LET NOZ HTR 1A	25.00	84	OT			
409501	SONIC RHT NOZ HTR 2A	24.70	85	OT			
500601	RESVOIR #1 VOL SNSR	1.83	212	OT	1.40B	1.40B	
500602	RESVOIR #2 VOL SNSR	1.83	215	OT			1.40B
500603	RESVOIR #3 VOL SNSR	1.83	218	OT			3.60A
503701	H2O BLR1 CNT LOGIC A	4.71	217	OT			
503703	H2O BLR2 CNT LOGIC A	3.92	213	OT	3.00C	2.90A	
503705	H2O BLR3 CNT LOGIC A	3.79	214	OT			
503801	H2O BOILER 1 CNTL A	.79	65	OT			
503803	H2O BOILER 2 CNTL A	.69	63	OT			
503805	H2O BOILER 3 CNTL A	.79	64	OT			
522701	BRK/SKID CNTL BOX A	17.97	30	A1			
522702	BRK/SKID CNTL BOX B	17.97	29	A2			
600301	ESCAPE SUIT VI ASY L	96.26	11	AC			
600302	ESCAPE SUIT VI ASY R	94.77	10	AC			
			TOTAL INVERTER WATTS	=	2058.24	1397.23	1944.63
			TOTAL 1 PHASE WATTS	=	958.60	591.00	1245.40
			TOTAL A PHASE WATTS	=	250.60	155.80	12.80
			TOTAL B PHASE WATTS	=	201.40	175.60	68.40
			TOTAL C PHASE WATTS	=	163.00	160.00	160.00

Figure 6.4-5. - Concluded

638

TOTAL WATTS = 20907.83

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 000:52:00.1

Figure 6.4-6.- Vehicle configuration at 4 hours MET

639

LISTING OF ALL ACTIVE COMPONENTS AT TIME 004:00:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEC LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-6. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	120.66			28	WC			
010102	IMU =2 OPERATE	120.66	*		29	WC			
010103	IMU =3 OPERATE	120.67	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.66			17	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	13.20			79	F6			
020802	NTWK SIG PROCESSOR 2	28.93			34	W3			
021101	S-BAND FM XMITT -1	11.11		15.00	13	W3			
021200	S-BND FM SIG PRO-ORB	7.79		15.00	36	A3			
021302	S-BND XPDR=2-DIRECT	62.31	*		34	W3			
021600	S-BND ANT SW ASY-QFS	10.59	*		33	A3			
024101	AUDIO CLNTER -1	40.38			42	W1			
024201	AUDIO TERM UN-PLT RT	3.57			41	AC			
024202	AUDIO TERM UN-CDR LT	3.57			10	AC			
024203	AUDIO TERM UNIT-RSS	3.66			15	AC			
024204	AUDIO TERM UNIT-RS	3.82			15	AC			
024701	SPKR MIKE UNIT -OS	1.84		80.00	10	AC			
024702	SPKR MIKE UNIT-MID DK	1.85		80.00	11	AC			
024901	HDSET INTF UNIT-PLT	.71			42	AC			
024902	HDSET INTF UNIT-CMDR	.71			41	AC			
024910	MULTIPLE HDSET ADPTR	.71			41	AC			
028101	TV CAM HTR-FWD PLB	4.98		25.00	11	OT			
028102	TV CAM HTR-AFT PLB	4.97		25.00	10	OT			
028105	TV CAM HTR-KEEL BAY	4.97		25.00	15	OT			
028201	PAN TLT HTR-FWD BAY	2.05		25.00	11	OT			
028202	PAN TLT HTR-AFT BAY	2.05		25.00	10	OT			
028203	PAN TLT HTR-KEEL BAY	2.05		25.00	15	OT			
030101	ADI =1 FWD LH	18.48			19	AC			
030103	ADI =3 AFT	18.51			21	AC			
031400	OMS/RCS PROP QTY IND	4.92			18	AC			
031501	C+W PWR SUP A-STBY	21.83			41	A3			
031502	C+W PWR SUP B-STBY	13.86			42	A3			
031701	MISSION TIMER =1 FWD	3.81			16	AC			
031702	MISSION TIMER =2 AFT	3.92			17	AC			
031601	EVENT TIMER =1 FWD	3.27			17	AC			
031602	EVENT TIMER =2 AFT	3.26			16	AC			
032201	DDU =1 FWD LH	120.00			19	HX			
032203	DDU =3 AFT	120.00			21	HX			
032701	CRT DU =1 - LF	91.13			22	HX			
032703	CRT DU =3 - CF	91.15			24	HX			
032703	DEU =1	202.00			22	HX			
032601	DEU =3	202.00			24	HX			
033101	PANEL LTS - LEFT/CTR	170.78		67.00	211	AC	195.00A		
033102	PANEL LTS - LEFT/OVHD	155.02		67.00	212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	116.48		67.00	215	AC		133.00B	
033107	PANEL LTS - RH/OVHD	115.61		67.00	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	50.62		67.00	218	AC			57.80B

Figure 6.4-6. - Continued

033302	INSTR LTS - OVERHEAD	24.08	67.00	215	AC		
033301	NUMERIC LIGHTS-FWD	22.88		512	AC	13.508	27.508
033501	MID DK FLDLT 1	1.72	10.00	4	AC		
033502	MID DK FLDLT 2	1.73	10.00	5	AC		
033503	MID DK FLDLT 3	1.73	10.00	6	AC		
033504	MID DK FLDLT 4	1.73	10.00	6	AC		
033506	MID DK FLDLT 6	1.73		5	AC		
033507	MID DK FLDLT 7	1.73		6	AC		
033508	MID DK FLDLT 8	1.72		5	AC		
033701	MID DECK PANEL LT #1	6.91		6	AC		
033702	MID DECK PANEL LT #2	6.88		4	AC		
034202	GLARSHLD FLDLT-LEFT	8.42		41	AC		
034203	GLARSHLD FLDLT-RGHT	8.41		42	AC		
036606	C-V ANNUN ASSY-OPR	8.16		41	AC		
037200	CICU - OPER	7.13		43	A1		
037301	ACA #1	14.03	13.80	16	AC		
037302	ACA #2/3	28.25	13.70	17	AC		
037303	ACA #4/5	25.26	16.60	18	AC		
037401	ANNUN 1	3.02	6.70	16	AC		
037402	ANNUN 2/3	5.62	6.70	17	AC		
037403	ANNUN 4/5	4.71	6.70	18	AC		
040301	PCM MASTER UNIT #1	55.00		30	W1		
040401	OPS-1 RECORDER-REPLY	16.79		28	W2		
040402	OPS-2 RECORDER-REPLY	55.31		29	W2		
040403	PAYLD RECORDER-REPLY	5.53		30	W1		
040501	DED SIG CND OF1-FWD	22.80		19	W1		
040502	DED SIG CND OF2-FWD	32.60		20	W2		
040503	DED SIG CND OF3-FWD	26.80		20	W3		
040601	DED SIG CND OA1-AFT	36.20		66	F4		
040602	DED SIG CND OA2-AFT	29.10		67	F5		
040603	DED SIG CND OA3-AFT	29.10		68	F6		
040900	MTU - OPER	31.47		43	W4		
041201	DSC OL1 OMS/RCS	23.30		78	OT		
041202	DSC OL2 OMS/RCS	21.40		80	OT		
041203	DSC GR1 OMS/RCS	23.30		78	OT		
041204	DSC OR2 OMS/RCS	21.40		79	OT		
041301	DSC OM1 MID FUS	13.90		19	OT		
041302	DSC OM2 MID FUS	22.10		19	OT		
041400	DSC OF4 FWD RCS	26.90		19	OT		
041601	WDRND S/C #1 (BAY4)	.42		63	OT		
041602	WDRND S/C #2 (BAY4)	.42		63	OT		
041603	WDRND S/C #3 (BAY4)	.42		63	OT		
041604	WDRND S/C #4 (BAY4)	.42		63	OT		
041701	WDRND S/C #1 (BAY5)	.42		64	OT		
041702	WDRND S/C #2 (BAY5)	.42		64	OT		
050100	PWR DIST ASSY-FWD	10.88		12	DW		
050201	PWR DIST ASSY #1 MID	10.02		44	D1		
050202	PWR DIST ASSY #2 MID	10.02		44	D2		
050203	PWR DIST ASSY #3 MID	10.02		44	D3		
050301	PCM MASTER UNIT #1	55.00		24	DW		
050401	DSC FWD #1-SDF1	22.20		12	DW		
050402	DSC FWD #2-SDF2	22.20		12	DW		
050403	DSC FWD #3-SDF3	22.50		12	DW		
050501	DSC UNIT #1-SDL1	16.60		44	D1		
050502	DSC UNIT #2-SDL2	24.70		44	D1		
050503	DSC UNIT #3-SDL3	16.60		44	D1		
050504	DSC UNIT #4-SDL4	24.70		44	D1		

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Figure 6.4-6. - Continued

050505	DSC UNIT #5 - SDR5	46.70	44	D1			
050506	DSC UNIT #1 - SDR1	16.60	44	D2			
050507	DSC UNIT #2 - SDR2	24.70	44	D2			
050508	DSC UNIT #3 - SDR3	16.60	44	D2			
050509	DSC UNIT #4 - SDR4	46.80	44	D2			
050601	DSC UNIT #1 - SOC1	16.60	44	D3			
050602	DSC UNIT #2 - SOC2	23.90	44	D3			
050603	DSC UNIT #3 - SOC3	16.60	44	D3			
050604	DSC UNIT #4 - SOC4	17.70	44	D3			
050605	DSC UNIT #5 - SOC5	16.60	44	D3			
050701	WB FDM 1A (FMF1)-FWD	13.60	50.00	DW			
050702	WB FDM 1B (FMF1)-FWD	13.60	50.00	DW			
050820	FREON FLOWTR-MID LYS	2.06	47	D3			
050831	LOAD SEN ACCEL-1 FWD	3.81	12	DW			
050832	LOAD SEN ACCEL-2 FWD	3.81	12	DW			
050833	LOAD SEN ACCEL-MR 2	14.40	47	D2			
050834	LOAD SEN ACCEL-MR 3	10.80	48	D2			
050930	PCM RECD-RECD-SERIAL	60.91	12	DW			
051011	WBSC FWD (A131)-100%	3.05	12	DW			
051332	WBSC LM3 (A145)-100%	2.88	47	D3			
051333	WBSC LM3 (A145)-100%	2.29	48	D3			
051501	SGSC FWD (A161)-100%	25.12	12	DW			
051502	SGSC FWD (A161)-100%	17.84	12	DW			
051611	SGSC ML1 (A162)-100%	95.46	47	D1			
051621	SGSC ML1 (A163)-100%	67.37	47	D1			
051624	SGSC ML1 (A163)-100%	7.92	48	D1			
051625	SGSC ML1 (A163)-100%	31.68	47	D1			
051631	SGSC MR2 (A164)-100%	117.83	48	D2			
051632	SGSC MR2 (A164)-100%	23.75	48	D2			
051641	SGSC MR2 (A165)-100%	106.63	48	D2			
051642	SGSC MR2 (A165)-100%	39.59	48	D2			
051651	SGSC MR2 (A169)-100%	73.00	48	D2			
051654	SGSC MR2 (A169)-100%	31.67	48	D2			
051661	SGSC ML3 (A166)-100%	78.56	48	D3			
051671	SGSC ML3 (A167)-100%	61.69	48	D3			
051673	SGSC ML3 (A167)-100%	23.75	48	D3			
051700	MDM DF1 - FWD	53.90	12	DW			
051801	MDM DL1 - MID LEFT 1	50.00	44	D1			
051802	MDM DL2 - MID LEFT 1	50.20	44	D1			
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2			
051804	MDM DR2 - MID RIGHT 2	52.80	44	D2			
051805	MDM DC1 - MID LEFT 3	49.10	44	D3			
051806	MDM DC2 - MID LEFT 3	52.50	44	D3			
051900	S-BAND FM XMITR-DFI	130.51	12	DW			
052200	ARS DFI SIGNAL COND	8.10	215	OT		6.208	
052300	AICS DFI SIGNAL COND	1.96	217	OT			1.50A
052401	DFI FREON PUMP #1	305.88	201	D1	234.00		
052500	3-AXIS ACCEL	1.85	12	OT			
060901	GRND CMDS INTFC UN A	29.37	33	M3			
061001	INV DIST+CTL ASY1-DC	2.61	41	A1			
061002	INV DIST+CTL ASY1-AC	2.75	201	A1	2.10		
061003	INV DIST+CTL ASY2-DC	2.61	42	A2			
061004	INV DIST+CTL ASY2-AC	2.75	202	A2		2.10	
061005	INV DIST+CTL ASY3-DC	2.61	43	A3			
061006	INV DIST+CTL ASY3-AC	2.75	203	A3			2.10
061701	CURR SENSOR-MIDBODY=1	3.54	7	OT			
061702	CURR SENSOR-MIDBODY=2	3.56	8	OT			

Figure 6.4-6. - Continued

061703	CURR SENSOR-MIDBODY=3	3.56			OT
061704	CURR SENSOR-PL MN 8	1.15			OT
061705	CURR SENSOR-PL MN C	1.15			OT
061706	CURR SENSOR-LH ADP	1.11			OT
061707	CURR SENSOR-LH ADP	1.11			OT
061708	CURR SENSOR-RH ADP	1.11			OT
061709	CURR SENSOR-RH ADP	1.11			OT
061801	H202 CRYO ASSY1A-QUESS	12.30			FM
061802	H202 CRYO ASSY1B-QUESS	12.35			FM
061811	H202 CRYO ASSY2A-QUESS	12.34			FM
061812	H202 CRYO ASSY2B-QUESS	12.35			FM
062101	MTR CNTL ASSY FWD=1	4.10	15.00	22	U1
062102	MTR CNTL ASSY FWD=2	4.10	12.50	23	U2
062103	MTR CNTL ASSY FWD=3	4.10	16.90	24	U3
062201	MTR CNTL ASSY MID=1	12.34	22.80	44	FM
062202	MTR CNTL ASSY MID=2	12.79	23.50	45	FM
062203	MTR CNTL ASSY MID=3	10.73	20.20	46	FM
062204	MTR CNTL ASSY MID=4	12.64	21.20	45	FM
062301	MTR CNTL ASSY AFT=1	9.39	20.00	63	F4
062302	MTR CNTL ASSY AFT=2	8.85	20.70	64	F5
062303	MTR CNTL ASSY AFT=3	15.95	30.60	65	F6
062401	LOAD CNTL ASSY FWD1	24.62	26.00	32	U1
062402	LOAD CNTL ASSY FWD2	26.97	30.61	33	U2
062403	LOAD CNTL ASSY FWD3	26.57	30.18	34	U3
062501	LOAD CNTL ASSY AFT1	74.33	80.61	84	FM
062502	LOAD CNTL ASSY AFT2	74.75	82.47	85	F5
062503	LOAD CNTL ASSY AFT3	82.09	84.81	86	F6
062601	PCA FWD=1	99.19	100.03	22	U2
062602	PCA FWD=2	41.78	12.65	23	U3
062603	PCA FWD=3	44.02	13.94	24	U4
062701	PCA MID=1	41.77	35.31	47	FM
062702	PCA MID=2	49.62	41.96	48	FM
062703	PCA MID=3	33.83	28.43	49	FM
062801	PCA AFT=1	30.72	34.55	72	F4
062802	PCA AFT=2	30.07	33.81	73	F5
062803	PCA AFT=3	27.35	30.85	74	F6
062804	PCA AFT=4	27.21	30.68	60	F4
062805	PCA AFT=5	31.80	35.86	61	F5
062806	PCA AFT=6	20.16	22.73	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	308.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	308.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	313.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	313.00	*	31	A2
070301	MDM FF1	58.90		28	U1
070302	MDM FF2	60.00		29	U2
070303	MDM FF3	55.50		30	U3
070304	MDM FF4	58.60		29	U4
070401	MDM FA1	54.80		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6

Figure 6.4-6. - Continued

070901	MM =1 TAPE OPER	20.25	*	22	W1	
070902	MM =2 TAPE OPER	20.25	*	23	W2	
071001	MDM OFI 1	46.80		19	W1	
071002	MDM OFI 2	46.80		19	W2	
071003	MDM OFI 3	47.40		21	W3	
071004	MDM OFI 4 FLT-DECK	48.40		21	W4	
071101	MDM OAI 1	41.30		66	F4	
071102	MDM OAI 2	42.10		67	F5	
071103	MDM OAI 3	42.70		68	F6	
071401	MDM PL 1	54.40		28	W1	
071402	MDM PL 2	56.90		29	W2	
075001	GPC CNTLR 1 PS A	7.21		31	A1	
075002	GPC CNTLR 1 PS B	7.21		31	A1	
075003	GPC CNTLR 2 PS A	7.21		31	A2	
075004	GPC CNTLR 2 PS B	7.21		31	A2	
075005	GPC CNTLR 3 PS A	7.21		31	A2	
075006	GPC CNTLR 3 PS B	1.38		31	A2	
203701	ENG 1 FASCOS SYS A	23.98		63	OT	
203702	ENG 1 FASCOS SYS B	23.98		64	OT	
203703	ENG 1 FASCOS SYS C	23.98		65	OT	
203704	ENG 2 FASCOS SYS A	23.98		63	OT	
203705	ENG 2 FASCOS SYS B	23.98		64	OT	
203706	ENG 2 FASCOS SYS C	23.98		65	OT	
203707	ENG 3 FASCOS SYS A	23.98		63	OT	
203708	ENG 3 FASCOS SYS B	23.98		64	OT	
203709	ENG 3 FASCOS SYS C	23.98		65	OT	
210701	LP ACT GMBL INST/LOG	7.41		72	OT	
210702	LP STB GMBL INST/LOG	7.41		73	OT	
210703	RP ACT GMBL INST/LOG	7.39		74	OT	
210704	RP STB GMBL INST/LOG	7.41		72	OT	
211501	BIPROP VL1 LP POS ID	1.48		72	OT	
211502	BIPROP VL2 LP POS ID	1.48		73	OT	
211503	BIPROP VL1 RP POS ID	1.48		72	OT	
211504	BIPROP VL2 RP POS ID	1.48		74	OT	
212106	TK ISO/XFD VL TLKBCX	.32		72	AC	
212401	QUAN GAGE TOT-1	9.66	*	78	OT	
212402	QUAN GAGE TOT-2	9.66	*	80	OT	
215101	GSE SR-PN HT A-43-RP	6.00		72	OT	
215103	OME COVER HT A-54-RP	35.71		33.19	72	OT
215107	CT LN WB HT A2-22-RP	78.09		38.62	72	OT
215108	CT LN WB HT A2-22-RP	82.22		38.62	72	OT
215109	CT LN WB HT A3-22-RP	41.09		38.62	72	OT
215111	CT LN WB HT A4-22-RP	84.27		38.62	72	OT
215112	PCS HSNG HT A1-42-RP	12.88		10.89	72	OT
215113	RCS HSNG HT A2-42-RP	11.12		10.89	72	OT
215301	GSE SR-PN HT A-44-RP	6.00		72	OT	
215303	OME COVER HT A-54-RP	35.71		33.19	73	CT
215307	CT LN WB HT A1-22-RP	78.09		38.62	73	OT
215308	CT LN WB HT A2-22-RP	82.22		38.62	73	OT
215309	CT LN WB HT A3-22-RP	41.09		38.62	73	OT
215311	CT LN WB HT A4-22-RP	84.27		38.62	73	OT
215312	RCS HSNG HT A1-42-RP	12.88		10.89	73	OT
215313	PCS HSNG HT A2-42-RP	11.12		10.89	73	OT
217001	XFD OX/FU FLXL HTA-L	5.00		14.08	72	OT
217003	XFD OX/FU FLXL HTA-R	5.00		14.08	72	OT
217101	XFD OX/FU LNE HT-A-L	16.00		25.85	72	OT
217103	XFD OX/FU LNE HT-A-R	16.00		25.85	72	OT

Figure 6.4-6. - Continued

217105	YFD OX/FU LNE HT-A-C	20.00	22.15	72	OT
217201	FU HIPT BLDLN HT-A-A	12.00	26.47	72	OT
217203	FU HIPT BLDLN HT-A-M	5.00	20.58	72	OT
217301	OX HIPT BLDLN HT-A-A	12.00	79.47	72	OT
217303	OX HIPT BLDLN HT-A-M	5.00	20.58	72	OT
217401	LOPT OX/FU BLDLN HTA-L	3.00	37.87	72	OT
217403	LOPT OX/FU BLDLN HTA-R	3.00	37.97	72	OT
220101	FWD THRUSTER F1F1-X	.11	.15	22	OT
220105	FWD THRUSTER F2F1-X	.11	.15	23	OT
220109	FWD THRUSTER F3F1-X	.11	.15	24	OT
220111	FWD THRUSTER F3L1+Y	.11	.15	24	OT
220201	AFT THRUSTER R1R1-Y	.14	.20	78	OT
220204	AFT THRUSTER R2R1-Y	.14	.20	80	OT
220207	AFT THRUSTER R3R1-Y	.14	.20	79	OT
220214	AFT THRUSTER L1L1+Y	.14	.20	78	OT
220217	AFT THRUSTER L2L1+Y	.14	.20	80	OT
220221	AFT THRUSTER L3L1+Y	.14	.20	79	OT
225208	AFT RCS HT-ENG R1U+Z	1.00	4.65	85	OT
225209	AFT RCS HT-ENG R2U+Z	1.00	4.65	84	OT
225211	AFT RCS HT-ENG R4U+Z	1.00	4.65	86	OT
225212	AFT RCS HT-ENG R1A+X	.60	1.86	85	OT
225213	AFT RCS HT-ENG R3A+X	2.00	6.19	86	OT
225308	AFT RCS HT-ENG L1U+Z	1.00	4.65	85	OT
225309	AFT RCS HT-ENG L2U+Z	1.00	4.65	84	OT
225311	AFT RCS HT-ENG L4U+Z	1.00	4.65	86	OT
225312	AFT RCS HT-ENG L1A+X	.60	1.86	85	OT
225313	AFT RCS HT-ENG L3A+X	2.00	6.19	86	OT
225501	AFT VRN HT-ENG R5D-Z	.80	7.41	86	OT
225502	AFT VRN HT-ENG R5R-Y	4.00	37.03	86	OT
225503	AFT VRN HT-ENG L5D-Z	.80	7.41	86	OT
225504	AFT VRN HT-ENG L5L+Y	4.00	37.03	86	OT
300201	FCP -1 O2 FLOWMETER	6.38		47	OT
300202	FCP -2 O2 FLOWMETER	6.48		48	OT
300203	FCP -3 O2 FLOWMETER	6.52		49	OT
300301	FCP -1 H2 FLOWMETER	6.38		47	OT
300302	FCP -2 H2 FLOWMETER	6.48		48	OT
300303	FCP -3 H2 FLOWMETER	6.52		49	OT
300401	FCP1 EL CTL-ORBT	5.13		38	OT
300402	FCP2 EL CTL-ORBT	5.12		39	OT
300403	FCP3 EL CTL-ORBT	5.03		40	OT
300501	FCP1 PMP+H2O SENSOR	235.95		201	OT
300502	FCP2 PMP+H2O SENSOR	236.34		202	OT
300503	FCP3 PMP+H2O SENSOR	239.94		203	OT
305101	G02 PRG LNE HTR AUT	40.70		48	OT
305201	G02 PRG LNE HTR AUT	51.60		48	OT
305602	H2O NOZ BARREL HTR B	2.80		49	OT
305702	H2O NOZ ORIFICE HT B	22.40	49.12	49	OT
310301	O2 INK1 SIG COND QTY	2.34	46.67	42	OT
310302	H2 INK1 SIG COND QTY	2.34		42	OT
310303	O2 INK2 SIG COND QTY	2.35		41	OT
310304	H2 INK2 SIG COND QTY	2.55		41	OT
320301	APU1 CNTLR-OPERATE	7.12		66	F4
320302	APU2 CNTLR-OPERATE	7.12		67	F5
320303	APU3 CNTLR-OPERATE	7.12		68	F6
325201	FUEL FEEDLINE HTR 1A	12.29	18.16	84	OT
325203	FUEL FEEDLINE HTR 2A	14.71	18.16	85	OT
325205	FUEL FEEDLINE HTR 3A	8.00	16.77	86	OT

180.50

180.80

183.50

Figure 6.4-6. - Continued

325301	FUEL SERVLINE HTR 1A	11.00	17.05	84	OT			
325301	FUEL SERVLINE HTR 2A	11.00	16.91	85	OT			
325305	FUEL SERVLINE HTR 3A	10.00	15.50	86	OT			
325401	FUEL DRN LINE HTR 1A	6.53	15.89	84	OT			
325403	FUEL DRN LINE HTR 2A	8.47	15.89	85	OT			
325405	FUEL DRN LINE HTR 3A	5.00	15.29	86	OT			
325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	OT			
325803	APU 2 PRI H2O HTR 1A	2.87	35.00	76	OT			
325805	APU 3 PRI H2O HTR 1A	9.38	35.00	77	OT			
325901	APU 1 SEC H2O HTR 2A	10.63	35.00	75	OT			
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT			
325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	OT			
326301	GG H2O TK LN HT 504A	4.37	35.00	75	OT			
326303	GG H2O TK LN HT 503A	7.94	35.00	77	OT			
400101	CABIN FAN A	645.94		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	1.80A
400600	ARS HUM SEP SIG CND	2.35		217	AC			
400701	PP02 CNTLR-SYS 1	.76		16	AC			
400702	PP02 CNTLR-SYS 2	.76		17	AC			
400711	O2 CONTROL VLV-SYS 1	5.11	50.00	16	AC			
400731	CABIN PRESS SENSOR	.76		16	AC			
400732	CAB PRES DECAY SENS	2.18		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.09		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.09		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.09		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.09		17	AC			
400761	PP02 SENSOR-SYS 1	.87		16	AC			
400762	PP02 SENSOR-SYS 2	.87		17	AC			
400763	PP02 SENSOR-SYS 3	.87		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.01		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.61		201	A3	166.00		2.40B
400901	AVION BAY 1 SIG COND	3.14		218	AC			
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.22		215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	7.07		16	OT			
401002	SMOKE DT SNR-R FLT D	7.07		16	OT			
401003	S D SNR A - BAY 1	7.09		18	OT			
401004	S D SNR B - BAY 1	7.08		17	OT			
401005	S D SNR A - BAY 2	7.07		16	OT			
401006	S D SNR B - BAY 2	7.09		18	OT			
401007	S D SNR A - BAY 3	7.08		17	OT			
401008	S D SNR B - BAY 3	7.07		16	OT			
401009	S D SNR - CABIN	7.09		18	OT			
401102	IMU FAN B	63.53		202	WC		48.60	
401103	IMU FAN SIG COND	2.35		218	AC			1.80B
401303	H2O PUMP - LOOP 2	250.79		203	WC			191.60
401501	H2O BYPASS CN SC-PRI	7.72		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.71		211	AC	5.90A		
402311	FOOD WARMER-OFT PHA	265.56		217	AC			203.00A
402312	FOOD WARMER-OFT PHC	265.37		219	AC			203.00C
402901	FREON PMP LP 1-A ASC	475.82	*	201	FP	374.00		
402903	FREON PMP LP 2-A ASC	475.96	*	203	FP			374.00
403001	RAD FLOW CNTLR A-LP1	2.18		17	OT			

Figure 6.4-6. - Continued

403002	RD FL CTR A-LP1 FALT	1.63	17	OT		
403004	RD FL CTR B-LP1 FALT	1.63	16	OT		
403101	RAD FLOW CNTRLR A-LP2	2.18	17	OT		
403102	RD FL CTR A-LP2 FALT	1.63	17	OT		
403104	RD FL CTR B-LP2 FALT	1.63	16	OT		
403201	RAD FL CNTRL VLV-LP-1	6.10	17	OT		
403202	RAD FL CNTRL VLV-LP-2	6.10	17	OT		
403601	FREON COOL LP1 INSTR	6.54	215	OT	5.00B	
403602	FREON COOL LP2 INSTR	6.54	215	OT		5.00B
403701	FES CONTROLLER PRI-A	8.06	86	OT		
403901	FES TOP'G PLSR V-PRI	8.30	89	OT		
403921	TPNG V HLDNG COIL-PR	3.14	89	OT		
406000	VACUUM VNT NOZ HTR	13.40	5	OT		
408103	PRI FWTR LN HTA-TS6	2.78	13.10	84	OT	
408105	PRI FWTR LN HTA-TS7	6.24	12.21	47	OT	
408107	PRI FWTR LN HTA-TS5	2.00	4.67	84	OT	
408203	SEC FWTR LN HTA-TS12	2.25	10.60	86	OT	
408205	SEC FWTR LN HTA-TS13	7.25	14.19	49	OT	
408207	SEC FWTR LN HTA-TS3	4.00	8.26	86	OT	
409001	TOP'G DUCT HTR1 SEC1	48.01	12.67	47	OT	
409101	TOP'G DUCT HTR1 SEC2	115.98	24.75	47	OT	
409201	TOP'G DUCT HTR1 SEC3	27.00	42.99	84	OT	
409301	TOP'G DUCT HTR1 SEC4	27.00	41.67	84	OT	
409401	SONIC LFT NOZ HTR 1A	11.60	46.40	84	OT	
409501	SONIC RHT NOZ HTR 2A	11.46	46.40	85	OT	
500601	RESVOIR #1 VOL SNR	1.83	212	OT	1.40B	
500602	RESVOIR #2 VOL SNR	1.83	215	OT		1.40B
500603	RESVOIR #3 VOL SNR	1.83	218	OT		1.40B
503701	H2O BLR1 CNT LOGIC A	4.71	217	OT		3.60A
503703	H2O BLR2 CNT LOGIC A	3.92	213	OT	3.00C	
503705	H2O BLR3 CNT LOGIC A	3.79	214	OT		2.90A
503801	H2O BOILER 1 CNTRL A	.83	65	OT		
503803	H2O BOILER 2 CNTRL A	.73	63	OT		
503805	H2O BOILER 3 CNTRL A	.83	64	OT		
TOTAL INVERTER WATTS =		1609.33	1061.90	2227.53		
TOTAL 3 PHASE WATTS =		958.60	591.00	1245.40		
TOTAL A PHASE WATTS =		200.90	155.80	215.80		
TOTAL B PHASE WATTS =		201.40	175.60	68.40		
TOTAL C PHASE WATTS =		3.00	.00	203.00		

Figure 6.4-6. - Concluded

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*****  
TOTAL WATTS = 16005.48  
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 004:00:00.0  
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Figure 6.4-7.- Vehicle configuration at 6 hours MET

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 006:00:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-7. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	120.29			28	WC			
010102	IMU =2 OPERATE	120.29	*		29	WC			
010103	IMU =3 OPERATE	120.29	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.65			17	OT			
011101	RJOF =1A PRI RCS	10.60			23	W1			
011102	RJOF =1B PRI RCS	10.60			22	W1			
011103	RJOF =2A PRI RCS	10.60			24	W2			
011104	RJOF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
020101	B+W TV MONITOR =1	35.90			10	HX			
020102	B+W TV MONITOR =2	36.06			11	HX			
020200	REMOTE CONTROL UNIT	41.02			10	HX			
020210	VIDEO SWITCHING UNIT	20.51			10	HX			
020301	COLOR TV CAM =1	13.87			15	AC			
020302	COLOR TV CAM =2	13.87			15	AC			
020311	CLR CAM1 LN ASY-SBY	5.76	*		15	OT			
020312	CLR CAM2 LN ASY-SBY	5.76	*		15	OT			
020321	VIEW FINDER MON=1	4.27			15	AC			
020322	VIEW FINDER MON=2	4.27			15	AC			
020802	NTWK SIG PROCESSOR 2	29.50			34	W3			
021101	S-BAND FM XMITR =1	36.49		50.00	33	W3			
021200	S-BAND FM SIG PRO-ORB	2.60		50.00	36	A3			
021302	S-BAND XPNDR=2-DIRECT	61.40	*		34	W3			
021600	S-BAND ANT SW ASY-GES	1.58	*		33	A3			
024101	AUDIO CENTER 1	40.01			42	W1			
024201	AUDIO TERM UN-PLT RT	3.50			42	AC			
024202	AUDIO TERM UN-CDR LT	3.51			41	AC			
024203	AUDIO TERM UNIT-MSS	3.59			10	AC			
024204	AUDIO TERM UNIT-PS	3.73			15	AC			
024701	SPKR MIKE UNIT -OS	1.81		80.00	10	AC			
024702	SPKR MIKE UNIT-MID-OK	1.81		80.00	11	AC			
024901	HDSET INTF UNIT-PLT	1.70			42	AC			
024902	HDSET INTF UNIT-CHDR	1.70			41	AC			
024910	MULTIPLE HDSET ADPTR	1.70			41	AC			
028101	TV CAM HTR-FWD PLB	4.98		25.00	11	OT			
028102	TV CAM HTR-AFT PLB	4.97		25.00	10	OT			
028105	TV CAM HTR-KEEL BAY	4.97		25.00	15	OT			
028201	PAN TLT HTR-FWD BAY	2.05		25.00	11	OT			
028202	PAN TLT HTR-AFT BAY	2.05		25.00	10	OT			
028203	PAN TLT HTR-KEEL BAY	2.05		25.00	15	OT			
030101	ADI =1 FWD LH	18.16			19	AC			
030103	ADI =3 AFT	18.18			21	AC			
031400	OMS/RCS PROP QTY IND	4.89			18	AC			
031501	C+W PWR SUP A-STBY	21.44			41	A3			
031502	C+W PWR SUP B-STBY	13.60			42	A3			
031701	MISSION TIMER =1 FWD	3.74			16	AC			
031702	MISSION TIMER =2 AFT	3.86			17	AC			
031801	EVENT TIMER =1 FWD	3.21			17	AC			
031802	EVENT TIMER =2 AFT	3.21			16	AC			
032201	DDU =1 FWD LH	120.00			19	HX			

Figure 6.4-7. - Continued

032203	ODU =3 AFT	120.00		21	HX			
032501	CRY DU =1 - LF	89.69		24	HX			
032703	CRY DU =3 - CF	89.69		24	HX			
032801	DEU =1	202.00		24	HX			
032803	DEU =3	202.00		24	HX			
033101	PANEL LTS - LEFT/CTR	176.78	67.00	211	AC	195.00A		
033102	PANEL LTS - LFT/OVHD	155.02	67.00	212	AC	177.00B		
033103	PANEL LTS - RIGHT	116.46	67.00	215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	116.61	67.00	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	58.62	67.00	218	AC			52.00B
033202	INSTR LTS - OVERHEAD	24.08	67.00	215	AC		27.50B	
033301	NUMERIC LIGHTS-FWD	22.88		212	AC			
033501	MID DK FLDLT 1	1.69	10.00	4	AC	17.50B		
033502	MID DK FLDLT 2	1.70	10.00	5	AC			
033503	MID DK FLDLT 3	1.70	10.00	6	AC			
033504	MID DK FLDLT 4	1.70	10.00	6	AC			
033506	MID DK FLDLT 6	1.70		5	AC			
033507	MID DK FLDLT 7	1.70		6	AC			
033508	MID DK FLDLT 8	1.69		4	AC			
033701	MID DECK PANEL LT =1	6.78		6	AC			
033702	MID DECK PANEL LT =2	6.77		4	AC			
034202	GLARSHLD FLDLT-LEFT	8.26		41	AC			
034203	GLARSHLD FLDLT-RIGHT	8.25		42	AC			
035600	C+M ANNUN ASSY-OPR	8.01		41	AC			
037200	CICU - OPR	7.01		43	A1			
037301	ACA =1	13.80	13.80	16	AC			
037302	ACA =2/3	27.78	13.70	17	AC			
037303	ACA =4/5	24.83	15.60	18	AC			
037401	ANNUN 1	6.97	6.70	16	AC			
037402	ANNUN 2/3	6.53	6.70	17	AC			
037403	ANNUN 4/5	4.62	6.70	18	AC			
040301	PCM MASTER UNIT =1	55.00		30	W1			
040401	OPS-1 RECORDER-REPLY	16.54		28	W2			
040402	OPS-2 RECORDER-REPLY	14.50		29	W2			
040403	PAYLD RECORDER-REPLY	5.45		30	W1			
040501	DED SIG CND OF1 - FWD	23.80		19	W1			
040502	DED SIG CND OF2 - FWD	32.60		20	W2			
040503	DED SIG CND OF3 - FWD	26.80		20	W3			
040601	DED SIG CND OA1 - AFT	36.20		66	F4			
040602	DED SIG CND OA2 - AFT	29.10		67	F5			
040603	DED SIG CND OA3 - AFT	29.10		68	F6			
040900	MTU - OPR	30.94		43	W4			
041201	DSC OL1 OMS/RCS	23.30		78	OT			
041202	DSC OL2 OMS/RCS	23.40		80	OT			
041203	DSC OR1 OMS/RCS	23.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WBND S/C =1 (BAY4)	.41		63	OT			
041602	WBND S/C =2 (BAY4)	.41		63	OT			
041603	WBND S/C =3 (BAY4)	.41		63	OT			
041604	WBND S/C =4 (BAY4)	.41		63	OT			
041701	WBND S/C =1 (BAY5)	.41		64	OT			
041702	WBND S/C =2 (BAY5)	.41		64	OT			
050100	PWR DIST ASSY FWD	10.65		12	DW			
050201	PWR DIST ASSY =1 MID	9.87		44	DI			

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Figure 6.4-7. - Continued

050202	PWR DIST ASSY =2 MID	9.87		44	D2
050203	PWR DIST ASSY =1 MID	2.37		44	D3
050301	PCM MASTER UNIT =1	55.00		24	DW
050401	OSC FWD =1-SOF1	22.20		12	DW
050402	OSC FWD =2-SOF2	22.20		12	DW
050403	OSC FWD =3-SOF3	22.50		12	DW
050501	OSC UNIT #1 - SDL1	16.60		44	D1
050502	OSC UNIT #2 - SDL2	24.70		44	D1
050503	OSC UNIT #3 - SDL3	16.60		44	D1
050504	OSC UNIT #4 - SDL4	24.70		44	D1
050505	OSC UNIT #5 - SDL5	46.70		44	D1
050506	OSC UNIT #1 - SDR1	16.60		44	D2
050507	OSC UNIT #2 - SDR2	24.70		44	D2
050508	OSC UNIT #3 - SDR3	16.60		44	D2
050509	OSC UNIT #4 - SDR4	46.80		44	D2
050601	OSC UNIT #1 - SDC1	16.60		44	D3
050602	OSC UNIT #2 - SDC2	23.90		44	D3
050603	OSC UNIT #3 - SDC3	16.60		44	D3
050604	OSC UNIT #4 - SDC4	17.70		44	D3
050605	OSC UNIT #5 - SDC5	16.60		44	D3
050701	WB FDM 1A (FMF1)-FWD	13.32	50.00	12	DW
050702	WB FDM 1B (FMF1)-FWD	13.32	50.00	12	DW
050820	FREON FLOMTR-MID LT3	2.02		47	D3
050831	LOAD SEN ACCEL-1 FWD	3.73		12	DW
050832	LOAD SEN ACCEL-2 FWD	3.73		12	DW
050833	LOAD SEN ACCEL-MR 2	14.15		47	D2
050834	LOAD SEN ACCEL-MR 3	10.62		48	D2
05093C	PCM PCDR-RECD-SERIAL	59.67	*	12	DW
051011	WBSC FWD (A131)-100%	2.98		12	DW
051232	WBSC LM3 (A145)-100%	2.43		47	D3
051333	WBSC LM3 (A145)-100%	3.24		48	D3
051501	SGSC FWD (A161)-100%	24.61		12	DW
051502	SGSC FWD (A161)-100%	17.47		12	DW
051611	SGSC ML1 (A162)-100%	93.61		47	D1
051621	SGSC ML1 (A163)-100%	66.21		47	D1
051624	SGSC ML1 (A163)-100%	7.79		48	D1
051625	SGSC ML1 (A163)-100%	31.14		47	D1
051631	SGSC MR2 (A164)-100%	116.94		48	D2
051632	SGSC MR2 (A164)-100%	23.37		48	D2
051641	SGSC MR2 (A165)-100%	104.91		48	D2
051642	SGSC MR2 (A165)-100%	38.95		48	D2
051651	SGSC MR2 (A165)-100%	71.83		48	D2
051654	SGSC MR2 (A165)-100%	31.16		48	D2
051661	SGSC ML3 (A166)-100%	77.29		48	D3
051671	SGSC ML3 (A167)-100%	60.70		48	D3
051673	SGSC ML3 (A167)-100%	23.37		48	D3
051700	HDM DF1 - FWD	53.90		12	DW
051801	HDM DL1 - MID LEFT 1	50.00		44	D1
051802	HDM DL2 - MID LEFT 1	50.23		44	D1
051803	HDM DR1 - MID RIGHT 2	50.00		44	D2
051804	HDM DR2 - MID RIGHT 2	52.80		44	D2
051805	HDM DC1 - MID LEFT 3	49.10		44	D3
051806	HDM DC2 - MID LEFT 3	52.50		44	D3
051900	S-BAND FM XMITR-DF1	127.86		12	DW
052200	ADS DF1 SIGNAL COND	8.10		215	OT
052300	AICS DF1 SIGNAL COND	1.96		217	OT
052401	DF1 FREON PUMP #1	305.88		201	D1

234.00

6.206

1.50A

Figure 6.4-7. - Continued

052500	3-AXIS ACCEL	1.81		12	OT
060901	CRNO FWD5 INTEC UN A	28.92		11	W1
061001	INV DIST+CTL ASY1-DC	.60		41	A1
061002	INV DIST+CTL ASY1-AC	2.75		201	A1
061003	INV DIST+CTL ASY2-DC	.60		42	A2
061004	INV DIST+CTL ASY2-AC	2.75		202	A2
061005	INV DIST+CTL ASY3-DC	.60		43	A3
061006	INV DIST+CTL ASY3-AC	2.75		203	A3
061701	CURR SENSOR-MIDBODY=1	3.50		7	OT
061702	CURR SENSOR-MIDBODY=2	3.51		8	OT
061703	CURR SENSOR-MIDBODY=3	3.50		9	OT
061704	CURR SENSOR-PL MN B	1.13		64	OT
061705	CURR SENSOR-PL MN C	1.13		65	OT
061706	CURR SENSOR-LH ADP	1.10		22	OT
061707	CURR SENSOR-LH ADP	1.10		23	OT
061708	CURR SENSOR-RH ADP	1.10		23	OT
061709	CURR SENSOR-RH ADP	1.10		23	OT
061801	H202 CRYO ASY1A-QUES	12.13		7	FM
061802	H202 CRYO ASY1B-QUES	12.16		9	FM
061803	H202 CRYO ASY1A-H2CY	6.79		7	FM
061804	H202 CRYO ASY1B-H2CY	6.80		9	FM
061805	H202 CRYO ASY1A-O2CY	26.01		7	FM
061806	H202 CRYO ASY1B-O2CY	26.07		9	FM
061811	H202 CRYO ASY2A-QUES	12.19		8	FM
061812	H202 CRYO ASY2B-QUES	12.16		9	FM
061813	H202 CRYO ASY2A-H2CY	6.82		8	FM
061814	H202 CRYO ASY2B-H2CY	6.80		9	FM
061815	H202 CRYO ASY2A-O2CY	26.14		8	FM
061816	H202 CRYO ASY2B-O2CY	26.07		9	FM
062101	MTR CNTL ASSY FWD=1	4.04	15.00	22	W1
062102	MTR CNTL ASSY FWD=2	3.74	12.50	23	W2
062103	MTR CNTL ASSY FWD=3	5.09	18.90	24	W3
062201	MTR CNTL ASSY MID=1	12.15	22.80	44	FM
062202	MTR CNTL ASSY MID=2	12.56	13.50	45	FM
062203	MTR CNTL ASSY MID=3	10.56	20.20	44	FM
062204	MTR CNTL ASSY MID=4	12.41	13.20	45	FM
062301	MTR CNTL ASSY AFT=1	9.22	20.00	63	F4
062302	MTR CNTL ASSY AFT=2	8.70	20.70	64	F5
062303	MTR CNTL ASSY AFT=3	15.67	30.60	65	F6
062401	LOAD CNTL ASSY FWD1	24.33	28.00	32	W1
062402	LOAD CNTL ASSY FWD2	26.56	30.61	33	W2
062403	LOAD CNTL ASSY FWD3	26.18	30.18	34	W3
062501	LOAD CNTL ASSY AFT1	73.05	25.61	84	F4
062502	LOAD CNTL ASSY AFT2	73.47	27.47	85	F5
062503	LOAD CNTL ASSY AFT3	80.67	34.81	86	F6
062601	PCA FWD=1	97.61	30.03	22	W1
062602	PCA FWD=2	41.13	12.65	23	W2
062603	PCA FWD=3	45.28	13.93	24	W3
062701	PCA MID=1	41.05	35.31	47	FM
062702	PCA MID=2	48.82	41.96	48	FM
062703	PCA MID=3	33.17	28.43	49	FM
062801	PCA AFT=1	30.16	34.55	72	F4
062802	PCA AFT=2	29.52	33.81	73	F5
062803	PCA AFT=3	26.88	30.85	74	F6
062804	PCA AFT=4	26.74	30.68	60	F4
062805	PCA AFT=5	31.26	35.86	61	F5
062806	PCA AFT=6	19.81	22.73	62	F6

Figure 6.4-7. - Continued

070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	308.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	308.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	313.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	313.00	*	31	A2
070301	MDM FF1	58.90		28	W1
070302	MDM FF2	60.00		29	W2
070303	MDM FF3	55.50		30	W3
070304	MDM FF4	68.60		32	W2
070401	MDM FA1	54.80		66	F5
070402	MDM FA2	54.20		67	F6
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6
070901	MM =1 TAPE OPER	19.93	*	22	W1
070902	MM =2 TAPE OPER	19.94	*	23	W2
071001	MDM OFI 1	46.80		19	W1
071002	MDM OFI 2	46.80		19	W2
071003	MDM OFI 3	47.40		21	W3
071004	MDM OFI 4 FLT DECK	40.40		21	W3
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
075001	GPC CNTLR 1 PS A	7.10		31	A1
075002	GPC CNTLR 1 PS B	7.10		31	A1
075003	GPC CNTLR 2 PS A	7.10		31	A2
075004	GPC CNTLR 2 PS B	7.10		31	A2
075005	GPC CNTLR 3 PS A	7.10		31	A2
075006	GPC CNTLR 3 PS B	1.36		31	A2
203701	ENG 1 FASCOS SYS A	23.57		63	OT
203702	ENG 1 FASCOS SYS B	23.56		64	OT
203703	ENG 1 FASCOS SYS C	23.56		65	OT
203704	ENG 2 FASCOS SYS A	23.57		63	OT
203705	ENG 2 FASCOS SYS B	23.56		64	OT
203706	ENG 2 FASCOS SYS C	23.56		65	OT
203707	ENG 3 FASCOS SYS A	23.57		63	OT
203708	ENG 3 FASCOS SYS B	23.56		64	OT
203709	ENG 3 FASCOS SYS C	23.56		65	OT
210701	LP ACT GMBL INST/LOG	7.27		72	OT
210702	RP ACT GMBL INST/LOG	7.26		74	OT
210703	RP ACT GMBL INST/LOG	7.26		74	OT
210704	RP STB GMBL INST/LOG	7.27		72	OT
211501	BIPROP VL1 LP POS ID	1.45		72	OT
211502	BIPROP VL2 LP POS ID	1.45		73	OT
211503	BIPROP VL1 RP POS ID	1.45		72	OT
211504	BIPROP VL2 RP POS ID	1.45		74	OT
212104	TK ISO/XFD VL TLKBUCK	9.31		72	AC
212401	QUAN GAGE TOT=LP-GPH	9.48		75	OT
212402	QUAN GAGE TOT=RP-OPR	9.48	*	80	CT
215101	GSE SR PN HT A-43-LP	6.00		72	OT
215103	OME COVER HT A-53-LP	35.71		72	OT
			13.95		
			33.19		

Figure 6.4-7. - Continued

215107	CT	LN	WB	HT	A1-21	-LP	78.09	38.62	72	OT
215108	CT	LN	WB	HT	A2-21	-LP	84.22	38.62	72	OT
215109	CT	LN	WB	HT	A3-21	-LP	84.09	38.62	72	OT
215111	CT	LN	WB	HT	A4-21	-LP	84.27	38.62	72	OT
215112	RCS	HSNG	HT	A1-41	-LP		12.88	10.89	72	OT
215113	RCS	HSNG	HT	A2-41	-LP		12.88	10.89	72	OT
215301	GSE	SR	PN	HT	A-44	-RRP	3.00	33.95	73	OT
215303	DPF	COVER	HT	A-30	-RRP		3.71	33.19	73	OT
215307	CT	LN	WB	HT	A1-22	-RRP	78.09	38.62	73	OT
215308	CT	LN	WB	HT	A2-22	-RRP	84.22	38.62	73	OT
215309	CT	LN	WB	HT	A3-22	-RRP	84.09	38.62	73	OT
215311	CT	LN	WB	HT	A4-22	-RRP	84.27	38.62	73	OT
215312	RCS	HSNG	HT	A1-42	-RRP		12.88	10.89	73	OT
215313	RCS	HSNG	HT	A2-42	-RRP		12.88	10.89	73	OT
217001	XFD	OX/FU	FLXL	HTA-L			5.00	14.08	72	OT
217003	XFD	OX/FU	FLXL	HTA-L			5.00	14.08	72	OT
217101	XFD	OX/FU	LNE	HTA-L			14.00	25.85	72	OT
217103	XFD	OX/FU	LNE	HTA-L			14.00	25.85	72	OT
217105	XFD	OX/FU	LNE	HTA-C			20.00	22.15	72	OT
217201	FU	HIPT	BLD	LN HTA-A			17.00	79.47	72	OT
217203	FU	HIPT	BLD	LN HTA-M			15.00	20.58	72	OT
217301	OX	HIPT	BLD	LN HTA-A			15.00	79.47	72	OT
217303	OX	HIPT	BLD	LN HTA-M			15.00	20.58	72	OT
217401	LOFT	OX/FU	DLN	HTA-R			3.00	37.97	72	OT
217403	LOFT	OX/FU	DLN	HTA-R			3.00	37.97	72	OT
220101	FWD	THRUSTER	F1F	(-X)			.11	.15	23	OT
220105	FWD	THRUSTER	F2F	(-X)			.11	.15	24	OT
220109	FWD	THRUSTER	F3F	(-X)			.11	.15	24	OT
220111	FWD	THRUSTER	F3L	(+Y)			.11	.15	24	OT
220201	AFT	THRUSTER	R1R	(-Y)			.14	.20	78	OT
220204	AFT	THRUSTER	R2R	(-Y)			.14	.20	80	OT
220207	AFT	THRUSTER	R3R	(-Y)			.14	.20	79	OT
220214	AFT	THRUSTER	L1L	(+Y)			.14	.20	78	OT
220217	AFT	THRUSTER	L2L	(+Y)			.14	.20	80	OT
220221	AFT	THRUSTER	L3L	(+Y)			.14	.20	79	OT
225205	AFT	RCS	HT	ENG R2D	-Z		1.00	4.65	84	OT
225206	AFT	RCS	HT	ENG R3D	-Z		1.00	4.65	86	OT
225207	AFT	RCS	HT	ENG R4D	-Z		1.00	4.65	86	OT
225208	AFT	RCS	HT	ENG R1U	+Z		1.00	4.65	85	OT
225209	AFT	RCS	HT	ENG R2U	+Z		1.00	4.65	84	OT
225211	AFT	RCS	HT	ENG R4U	+Z		1.00	4.65	86	OT
225212	AFT	RCS	HT	ENG R1A	+X		1.86	1.86	85	OT
225213	AFT	RCS	HT	ENG R3A	+X		2.00	6.19	86	OT
225305	AFT	RCS	HT	ENG L2D	-Z		1.00	4.65	84	OT
225306	AFT	RCS	HT	ENG L3D	-Z		1.00	4.65	86	OT
225307	AFT	RCS	HT	ENG L4D	-Z		1.00	4.65	86	OT
225308	AFT	RCS	HT	ENG L1U	+Z		1.00	4.65	85	OT
225309	AFT	RCS	HT	ENG L2U	+Z		1.00	4.65	84	OT
225311	AFT	RCS	HT	ENG L4U	+Z		1.00	4.65	86	OT
225312	AFT	RCS	HT	ENG L1A	+X		1.86	1.86	85	OT
225313	AFT	RCS	HT	ENG L3A	+X		2.00	6.19	86	OT
225501	AFT	VRN	HT	ENG R5D	-Z		4.00	7.41	86	OT
225502	AFT	VRN	HT	ENG R5R	-Y		4.00	37.03	86	OT
225503	AFT	VRN	HT	ENG L5D	-Z		4.00	7.41	86	OT
225504	AFT	VRN	HT	ENG L5L	+Y		4.00	37.03	86	OT
300201	FCP	=1	OZ	FLOWMETER			6.27		47	OT
300202	FCP	=2	OZ	FLOWMETER			6.37		48	OT

Figure 6.4-7. - Continued

300203	FCP -3 02 FLOWMETER	6.39		49	01			
300301	FCP -1 H2 FLOWMETER	6.27		47	01			
300302	FCP -2 H2 FLOWMETER	6.37		48	01			
300303	FCP -3 H2 FLOWMETER	6.39		49	01			
300401	FCP1 EL CTL-ORBT	5.02		38	01			
300402	FCP2 EL CTL-ORBT	5.01		39	01			
300403	FCP3 EL CTL-ORBT	4.94		40	01			
300501	FCP1 PMP+H2O SENSOR	235.95		201	01	180.50		
300502	FCP2 PMP+H2O SENSOR	236.34		202	01		180.80	
300503	FCP3 PMP+H2O SENSOR	238.87		203	01			183.50
305602	H2O NOZ BARREL HTR B	2.80	49.12	49	01			
305702	H2O NOZ ORIFICE HT B	22.40	46.67	49	01			
310301	02 TANK 1 SIG COND QTY	2.30		42	01			
310302	H2 TANK 1 SIG COND QTY	2.30		42	01			
310303	02 TANK 2 SIG COND QTY	2.30		41	01			
310304	H2 TANK 2 SIG COND QTY	2.50		41	01			
311701	02 TANK 1 HEATER A1	210.50		7	01			
311702	02 TANK 1 HEATER A2	210.50		7	01			
311703	02 TANK 2 HEATER A1	222.50		9	01			
311704	02 TANK 2 HEATER A2	220.70		9	01			
311801	02 TANK 1 HEATER B1	211.70		9	01			
311802	02 TANK 1 HEATER B2	215.40		9	01			
311803	02 TANK 2 HEATER B1	219.50		8	01			
311804	02 TANK 2 HEATER B2	222.70		8	01			
311901	H2 TANK 1 HEATER A	96.50		7	01			
311902	H2 TANK 1 HEATER B	97.20		9	01			
311903	H2 TANK 2 HEATER A	98.80		9	01			
311904	H2 TANK 2 HEATER B	99.30		8	01			
320301	APU1 CNTRLR-OPERATE	6.99		66	F4			
320302	APU2 CNTRLR-OPERATE	6.99		67	F5			
320303	APU3 CNTRLR-OPERATE	6.99		68	F6			
325201	FUEL FEEDLINE HTR 1A	12.29	18.16	84	01			
325203	FUEL FEEDLINE HTR 2A	14.71	18.16	85	01			
325205	FUEL FEEDLINE HTR 3A	8.00	16.77	86	01			
325301	FUEL SERVLINE HTR 1A	11.00	17.05	84	01			
325303	FUEL SERVLINE HTR 2A	8.08	16.93	85	01			
325305	FUEL SERVLINE HTR 3A	10.00	15.50	86	01			
325401	FUEL DRN LINE HTR 1A	6.53	15.85	84	01			
325403	FUEL DRN LINE HTR 2A	8.47	15.89	85	01			
325405	FUEL DRN LINE HTR 3A	5.00	15.29	86	01			
325701	OIL LINE HTR 1A	9.84	14.32	84	01			
325703	OIL LINE HTR 2A	10.17	14.32	85	01			
325705	OIL LINE HTR 3A	12.00	16.90	86	01			
325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	01			
325803	APU 2 PRI H2O HTR 1A	2.87	35.00	76	01			
325805	APU 3 PRI H2O HTR 1A	9.38	35.00	77	01			
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	01			
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	01			
325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	01			
326301	GG H2O TK LN HT 504A	4.37	35.00	75	01			
326303	GG H2O TK LN HT 503A	7.94	35.00	77	01			
400101	CABIN FAN A	645.75		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC	16.90A		
400301	CAB AIR TMP CN-EL=PR	5.23		214	AC	4.00A		
400400	CAB AIR SIGNAL COND	4.84		212	AC			
400502	ARS HUMIDITY SEP B	37.25		202	AC	3.70B	28.50	
400600	ARS HUM SEP SIG CND	2.35		217	AC			1.80A

Figure 6.4-7. - Continued

400711	PP02 CNTRL-SYS 1	.75	16	AC			
400712	PP02 CNTRL-SYS 2	.75	17	AC			
400711	02 CONTROL VLV-SYS 1	5.03	16	AC	50.00		
400731	CABIN PRESS SENSOR	.75	16	AC			
400732	CAB PRESS DECAV SENS	2.14	17	AC			
400751	02 FLOW SENSOR-SYS 1	1.07	16	AC			
400752	02 FLOW SENSOR-SYS 2	1.07	17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.07	16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.07	17	AC			
400761	PP02 SENSOR-SYS 1	.86	16	AC			
400762	PP02 SENSOR-SYS 2	.86	17	AC			
400763	PP02 SENSOR-SYS 3	.86	17	AC			
400802	AVION FAN-BAY 1 (B)	219.61	202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	219.07	202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.61	201	A3		168.00	
400901	AVION BAY 1 SIG COND	3.14	218	AC			2.40B
400902	AVION BAY 2 SIG COND	2.35	212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27	215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	6.95	16	OT			
401002	SMOKE DT SNR-R FLT D	6.95	16	OT			
401003	S D SNRSR A - BAY 1	6.97	18	OT			
401004	S D SNRSR P - BAY 1	6.96	17	OT			
401005	S D SNRSR A - BAY 2	6.95	16	OT			
401006	S D SNRSR B - BAY 2	6.97	18	OT			
401007	S D SNRSR A - BAY 3	6.96	17	OT			
401008	S D SNRSR R - BAY 3	6.95	16	OT			
401009	S D SNRSR - CABIN	6.97	18	OT			
401102	IMU FAN R	63.53	202	WC		48.60	
401200	IMU FAN SIG COND	2.35	218	AC			1.80B
401303	H2O PUMP - LOOP 2	250.72	203	WC			191.80
401501	H2O BYPASS CN SC-PRI	7.71	217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.71	211	AC			
402901	FREON PHP LP 1-A ASC	475.82	201	FP	5.90A		
402903	FREON PHP LP 2-A ASC	475.82	203	FP	374.00		374.00
403001	RAD FLOW CNTRL A-LP1	2.14	17	OT			
403002	RD FL CTR A-LP1 FALT	1.61	17	OT			
403004	RD FL CTR B-LP1 FALT	1.60	16	OT			
403101	RAD FLOW CNTRL A-LP2	2.14	17	OT			
403102	RD FL CTR A-LP2 FALT	1.61	17	OT			
403104	RD FL CTR B-LP2 FALT	1.60	16	OT			
403201	RAD FL CNTRL VLV-LP 1	6.00	17	OT			
403202	RAD FL CNTRL VLV-LP 2	6.00	17	OT			
403601	FREON COOL LP1 INSTR	6.54	215	OT		5.00B	
403602	FREON COOL LP2 INSTR	6.54	218	OT			5.00B
403701	FES CONTROLLER PRI A	7.92	86	OT			
403901	FES TORIG PLSR-V-PRI	8.16	89	OT			
403921	TPNG V HLONG COIL-PR	3.09	89	OT			
406000	VACUUM VNT NOZ HTR	11.40	5	OT			
408103	PRI FWTR LN HTA-TS6	2.78	13.10	84			
408105	PRI FWTR LN HTA-TS7	6.24	12.21	47			
408107	PRI FWTR LN HTA-TS5	2.00	4.67	84			
408203	SEC FWTR LN HTA-TS12	2.25	10.60	86			
408205	SEC FWTR LN HTA-TS13	7.25	14.19	49			
408207	SEC FWTR LN HTA-TS3	4.00	8.26	86			
409001	TOP G DUCT HTR1 SEC1	48.01	12.67	47			
409101	TOP G DUCT HTR1 SEC2	115.98	24.75	47			
409201	TOP G DUCT HTR1 SEC3	27.00	42.99	84			

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OF POOR QUALITY

Figure 6.4-7. - Continued

400301	TOP'G DUCT HTR1 SEC4	27.00	41.67	84	OT			
400401	SONIC LFT NO2 HTR 1A	11.46	44.40	84	OT			
400501	SONIC RHT NO2 HTP 2A	11.46	46.40	85	OT			
500601	RESVOIR #1 VOL SNSR	1.83		21.55	OT	1.40B		
500802	RESVOIR #2 VOL SNSR	1.83		21.55	OT		1.40B	
500803	RESVOIR #3 VOL SNSR	1.83		21.55	OT			1.40B
503701	H2O BLR1 CNT LOGIC A	4.71		21.7	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.92		21.3	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79		21.4	OT		2.90A	
503801	H2O BOILER 1 CNTL A	.82		63	OT			
503803	H2O BOILER 2 CNTL A	.72		63	OT			
503805	H2O BOILER 3 CNTL A	.82		63	OT			
505303	WSR TK/BOILER HTR 2A	10.00	6.47	63	OT			
			TOTAL INVERTER WATTS			1609.33	1061.90	1696.11
			TOTAL 3 PHASE WATTS			958.60	591.00	1245.40
			TOTAL A PHASE WATTS			200.90	155.80	12.80
			TOTAL B PHASE WATTS			201.40	175.60	68.40
			TOTAL C PHASE WATTS			3.00	.00	.00

Figure 6.4-7. - Concluded

659

TOTAL WATTS = 17838.02

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 006:00:00.0

Figure 6.4-8.- Vehicle configuration at 23 hours 15 minutes

LISTING OF ALL ACTIVE COMPONENTS AT TIME 023:15:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-8. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	120.73			28	WC			
010102	IMU =2 OPERATE	120.74	*		29	WC			
010103	IMU =3 OPERATE	120.73	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.66			17	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
020802	NTWK SIG PROCESSOR 2	30.00			34	W3			
021101	S-BAND FM XMITT -1	11.14		15.00	33	W1			
021200	S-BND FM SIG PRO-ORB	.79		15.00	36	A3			
021302	S-BND XPNDR=2-DIRECT	62.45	*		34	W3			
021600	S-BND ANT SW ASY-QFS	.59	*		33	A3			
024101	AUDIO CENTER 1	40.78			42	W1			
024201	AUDIO TERM UN-PLT RT	3.57			42	AC			
024202	AUDIO TERM UN-CDR LT	3.57			41	AC			
024203	AUDIO TERM UNIT-MSS	3.66			10	AC			
024204	AUDIO TERM UNIT-PS	3.82			15	AC			
024701	SPKR MIKE UNIT -OS	1.84		80.00	10	AC			
024702	SPKR MIKE UNIT-MID DK	1.85		80.00	11	AC			
024901	HDSET INTF UNIT-PLT	.71			42	AC			
024902	HDSET INTF UNIT-CHDR	.71			41	AC			
024910	MULTIPLE HDSET ADPTR	.71			41	AC			
028101	TV CAM HTR-FWD PLB	7.96		40.00	11	OT			
028102	TV CAM HTR-AFT PLB	7.96		40.00	10	OT			
028105	TV CAM HTR-KEEL BAY	7.96		40.00	15	OT			
028201	PAN TLT HTR-FWD BAY	3.28		40.00	11	OT			
028202	PAN TLT HTR-AFT BAY	3.28		40.00	10	OT			
028203	PAN TLT HTR-KEEL BAY	3.28		40.00	15	OT			
030101	ADT =1 FWD LH	18.48			19	AC			
030103	ADT =3 AFT	18.50			21	AC			
031400	OMS/RCS PROP QTY IND	4.92			18	AC			
031501	C+W PWR SUP A-STBY	21.84			41	A3			
031502	C+W PWR SUP B-STBY	13.86			42	A3			
031701	MISSION TIMER =1 FWD	3.80			16	AC			
031702	MISSION TIMER =2 AFT	3.92			17	AC			
031801	EVENT TIMER =1 FWD	3.27			17	AC			
031802	EVENT TIMER =2 AFT	3.26			16	AC			
032201	DDU =1 FWD LH	120.00			19	HX			
032203	DDU =3 AFT	120.00			21	HX			
032701	CRT DU =1 - LF	61.35			22	HX			
032703	CRT DU =3 - CF	91.39			24	HX			
032801	DEU =1	202.00			22	HX			
032803	DEU =3	202.00			24	HX			
033101	PANEL LTS - LEFT/CTR	170.78		67.00	211	AC	195.00A		
033102	PANEL LTS - LEFT/VDVD	155.02		67.00	212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	116.48		67.00	215	AC		133.00B	
033107	PANEL LTS - RHT/VDVD	115.61		67.00	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	50.62		67.00	218	AC			57.80B

Figure 6.4-8. - Continued

033202	INSTR LTS - OVERHEAD	24.06	67.00	215	AC	27.508
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.508
033501	MID DK FLDLT 1	17.19		4	AC	
033502	MID DK FLDLT 2	17.26		5	AC	
033503	MID DK FLDLT 3	17.28		6	AC	
033504	MID DK FLDLT 4	17.28		6	AC	
033506	MID DK FLDLT 6	17.28	*	5	AC	
033507	MID DK FLDLT 7	17.28	*	6	AC	
033508	MID DK FLDLT 8	17.19	*	4	AC	
033701	MID DECK PANEL LT =1	6.01		6	AC	
033702	MID DECK PANEL LT =2	6.88		4	AC	
034202	GLARSHLD FLDLT-LEFT	8.42	*	41	AC	
034203	GLARSHLD FLDLT-RIGHT	8.41	*	42	AC	
035600	CAN ANNUN ASSY-OPR	8.16	*	41	AC	
037200	CICU - OPER	7.13	*	43	A1	
037301	ACA =1	14.03		16	AC	
037302	ACA =2/3	28.24	33.80	17	AC	
037303	ACA =4/5	25.26	15.60	18	AC	
037401	ANNUN 1	3.02	6.70	16	AC	
037402	ANNUN 2/3	5.62	6.70	17	AC	
037403	ANNUN 4/5	4.70	6.70	18	AC	
040301	PCM MASTER UNIT -1	55.00		30	W1	
040401	OPS-1 RECORDER-REPLY	16.83	*	28	W2	
040402	OPS-2 RECORDER-REPLY	55.44	*	29	W2	
040403	PAYLO RECORDER-REPLY	5.54	*	30	W1	
040501	DED SIG CND OF1- FWD	22.80		19	W1	
040502	DED SIG CND OF2- FWD	32.60		20	W2	
040503	DED SIG CND OF3- FWD	26.80		20	W3	
040601	DED SIG CND OA1- AFT	36.20		56	F4	
040602	DED SIG CND OA2- AFT	29.10		67	F5	
040603	DED SIG CND OA3- AFT	29.10		68	F6	
040900	MTU - OPER	31.46		43	W4	
041201	DSC OL1 OMS/RCS	23.30		78	OT	
041202	DSC OL2 OMS/RCS	21.40		80	OT	
041203	DSC OR1 OMS/RCS	23.30		78	OT	
041204	DSC OR2 OMS/RCS	21.40		79	OT	
041301	DSC OM1 MID FUS	13.90		19	OT	
041302	DSC OM2 MID FUS	22.10		15	OT	
041400	DSC OF4 FWD RCS	26.90		19	OT	
041601	WDBND S/C =1 (BAY4)	.42		63	OT	
041602	WDBND S/C =2 (BAY4)	.42		63	OT	
041603	WDBND S/C =3 (BAY4)	.42		63	OT	
041604	WDBND S/C =4 (BAY4)	.42		63	OT	
041701	WDBND S/C =1 (BAY5)	.42		64	OT	
041702	WDBND S/C =2 (BAY5)	.42		64	OT	
050100	PWR DIST ASSY-FWD	10.88		12	DW	
050201	PWR DIST ASSY =1 MID	10.02		44	D1	
050202	PWR DIST ASSY =2 MID	10.02		44	D2	
050203	PWR DIST ASSY =3 MID	10.02		44	D3	
050301	PCM MASTER UNIT -1	55.00		28	DW	
050401	DSC FWD =1-SOF1	22.20		12	DW	
050402	DSC FWD =2-SOF2	22.30		12	DW	
050403	DSC FWD =3-SOF3	22.50		12	DW	
050501	DSC UNIT #1 - SDL1	16.50		44	D1	
050502	DSC UNIT #2 - SDL2	24.70		44	D1	
050503	DSC UNIT #3 - SDL3	16.60		44	D1	
050504	DSC UNIT #4 - SDL4	24.70		44	D1	

Figure 6.4-8. - Continued

050505	DSC UNIT #5 - SOL5	46.70		44	D1			
050506	DSC UNIT #1 - SDR1	16.60		44	D1			
050507	DSC UNIT #2 - SDR2	24.70		44	D2			
050508	DSC UNIT #3 - SDR3	16.60		44	D2			
050509	DSC UNIT #4 - SDR4	46.80		44	D2			
050601	DSC UNIT #1 - SDC1	16.60		44	D1			
050602	DSC UNIT #2 - SDC2	23.90		44	D1			
050603	DSC UNIT #3 - SDC3	16.60		44	D1			
050604	DSC UNIT #4 - SDC4	17.70		44	D1			
050605	DSC UNIT #5 - SDC5	16.60		44	D1			
050701	WB FOM 1A (FMF1)-FWD	13.60	50.00	12	DW			
050702	WB FOM 1B (FMF1)-FWD	13.60	50.00	12	DW			
050820	FREON FLOMTR-MID LT3	2.06		47	D3			
050831	LOAD SEN ACCEL-1 FWD	3.81		12	DW			
050832	LOAD SEN ACCEL-2 FWD	3.81		12	DW			
050833	LOAD SEN ACCEL-MR 2	14.39		47	D2			
050834	LOAD SEN ACCEL-MR 3	10.79		48	D2			
050930	PCM RCDH RECD SERIAL	60.91		12	DW			
051011	WBSC FWD (A131)-100%	3.05		12	DW			
051332	WBSC LM3 (A145)-100%	2.88		47	D3			
051333	WBSC LM3 (A145)-100%	3.29		48	D3			
051501	SGSC FWD (A161)-100%	26.13		12	DW			
051502	SGSC FWD (A161)-100%	17.84		12	DW			
051503	SGSC ML1 (A162)-100%	95.40		47	D1			
051504	SGSC ML1 (A163)-100%	67.34		47	D1			
051505	SGSC ML1 (A163)-100%	7.91		48	D1			
051506	SGSC ML1 (A163)-100%	31.66		47	D1			
051507	SGSC MR2 (A164)-100%	117.80		48	D2			
051508	SGSC MR2 (A164)-100%	23.74		48	D2			
051509	SGSC MR2 (A165)-100%	106.59		48	D2			
051510	SGSC MR2 (A165)-100%	39.57		48	D2			
051511	SGSC MR2 (A169)-100%	72.98		48	D2			
051512	SGSC MR2 (A169)-100%	31.66		48	D2			
051513	SGSC ML3 (A166)-100%	78.53		48	D3			
051514	SGSC ML3 (A167)-100%	61.67		48	D3			
051515	SGSC ML3 (A167)-100%	23.74		48	D3			
051700	MDM DF1 - FWD	53.90		12	DW			
051801	MDM DL1 - MID LEFT 1	50.00		44	D1			
051802	MDM DL2 - MID LEFT 1	50.20		44	D1			
051803	MDM DR1 - MID RIGHT 2	50.00		44	D2			
051804	MDM DR2 - MID RIGHT 2	52.80		44	D2			
051805	MDM DC1 - MID LEFT 3	49.10		44	D1			
051806	MDM DC2 - MID LEFT 3	52.50		44	D3			
051900	S-RAND FM XMITR-DFI	130.53		12	DW			
052200	ARS DFI SIGNAL COND	8.10		215	OT			
052300	ATCS DFI SIGNAL COND	1.96		217	OT			
052401	DFI FREON PUMP #1	365.88		201	D1	234.00		
052500	3-AXIS ACCEL	1.85		12	OT			
060901	GRND CHDS INTFC UN A	29.43		33	D3			
061001	INV DIST+CTL ASY1-DC	.61		41	A1			
061002	INV DIST+CTL ASY1-AC	2.75		201	A1	2.10		
061003	INV DIST+CTL ASY2-DC	.61		42	A2			
061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10		
061005	INV DIST+CTL ASY3-DC	.61		43	A3			
061006	INV DIST+CTL ASY3-AC	2.75		203	A3			
061701	CURR SENSOR-MIDBODY=1	3.55		7	OT			2.10
061702	CURR SENSOR-MIDBODY=2	3.57		8	OT			

Figure 6.4-8. - Continued

061703	CURR SENSOR-MIOBOY=3	3.56			9	OT
061704	CURR SENSOR-PL MN 6	1.14			64	OT
061705	CURR SENSOR-PL MN C	1.14			55	OT
061706	CURR SENSOR-LH ADP	1.12			22	OT
061707	CURR SENSOR-LH ADP	1.12			23	OT
061708	CURR SENSOR-RH ADP	1.12			23	OT
061709	CURR SENSOR-RH ADP	1.12			23	OT
061801	H202 CRYO ASY1A-QUEFS	12.32			7	FM
061802	H202 CRYO ASY1B-QUEFS	12.37			9	FM
061811	H202 CRYO ASY2A-QUEFS	12.38			8	FM
061812	H202 CRYO ASY2B-QUEFS	12.37			9	FM
062101	MTR CNTL ASSY FWD =1	4.11	15.00		22	W1
062102	MTR CNTL ASSY FWD =2	3.81	12.50		22	W2
062103	MTR CNTL ASSY FWD =3	5.18	18.30		24	W3
062201	MTR CNTL ASSY MID =1	12.34	22.80		45	FM
062202	MTR CNTL ASSY MID =2	12.80	13.50		44	FM
062203	MTR CNTL ASSY MID =3	10.73	20.20		45	FM
062204	MTR CNTL ASSY MID =4	12.64	13.20		45	FM
062301	MTR CNTL ASSY AFT =1	9.35	20.00		63	F4
062302	MTR CNTL ASSY AFT =2	8.82	20.70		65	F5
062303	MTR CNTL ASSY AFT =3	15.89	30.60		65	F6
062401	LOAD CNTL ASSY FWD1	24.74	28.00		32	W1
062402	LOAD CNTL ASSY FWD2	27.03	30.61		33	W2
062403	LOAD CNTL ASSY FWD3	26.63	30.18		34	W3
062501	LOAD CNTL ASSY AFT1	73.95	25.61		84	F4
062502	LOAD CNTL ASSY AFT2	74.36	27.47		85	F5
062503	LOAD CNTL ASSY AFT3	81.66	34.81		86	F6
062601	PCA FWD =1	99.43	30.03		23	W1
062602	PCA FWD =2	41.88	12.65		23	W2
062603	PCA FWD =3	46.14	15.43		24	W3
062701	PCA MID =1	41.75	35.31		47	FM
062702	PCA MID =2	49.60	41.96		48	FM
062703	PCA MID =3	33.84	28.49		49	FM
062801	PCA AFT =1	30.57	34.55		72	F4
062802	PCA AFT =2	29.92	33.81		73	F5
062803	PCA AFT =3	27.22	30.85		74	F6
062804	PCA AFT =4	27.09	30.68		60	F4
062805	PCA AFT =5	31.65	35.86		61	F5
062806	PCA AFT =6	20.06	22.73		62	F6
070101	GPC CPU#1-RUN	313.00			31	A1
070102	GPC CPU#2-RUN	313.00			31	A2
070103	GPC CPU#3-RUN	308.00	*		31	A3
070104	GPC CPU#4-RUN	313.00			31	A1
070105	GPC CPU#5-RUN	308.00	*		31	A1
070201	GPC IOP#1-RUN	340.00			31	A2
070202	GPC IOP#2-RUN	340.00			31	A3
070203	GPC IOP#3-RUN	313.00	*		31	A1
070204	GPC IOP#4-RUN	340.00			31	A2
070205	GPC IOP#5-RUN	313.00	*		31	A1
070301	MDM FF1	58.90			28	W1
070302	MDM FF2	60.00			29	W2
070303	MDM FF3	55.50			30	W3
070304	MDM FF4	58.60			29	W2
070401	MDM FA1	58.80			66	F4
070402	MDM FA2	54.20			67	F5
070403	MDM FA3	55.60			68	F6
070404	MDM FA4	56.20			68	F6

Figure 6.4-8. - Continued

070901	MM = 1	TYPE	OPER	20.30	*	22	W1
070902	MM = 1	TYPE	OPER	20.30	*	22	W2
071001	MDM	CFI	1	46.80		19	W1
071002	MDM	CFI	2	46.80		19	W2
071003	MDM	CFI	3	47.40		21	W3
071004	MDM	CFI	4	48.40		21	W4
071101	MDM	OAI	1	41.30		66	F4
071102	MDM	OAI	2	42.10		67	F5
071103	MDM	OAI	3	42.70		68	F6
071401	MDM	PL	1	54.40		28	W1
071402	MDM	PL	2	56.90		29	W2
075801	GPC	CHTLR	1	7.22		31	A1
075802	GPC	CHTLR	2	7.22		31	A1
075803	GPC	CHTLR	3	7.22		31	A2
075804	GPC	CHTLR	4	7.22		31	A2
075805	GPC	CHTLR	5	7.22		31	A2
075806	GPC	CHTLR	6	7.22		31	A2
203701	ENG	1	FASCO	23.89		64	OT
203702	ENG	1	FASCO	23.89		65	OT
203703	ENG	1	FASCO	23.90		63	OT
203704	ENG	2	FASCO	23.89		64	OT
203705	ENG	2	FASCO	23.89		65	OT
203706	ENG	2	FASCO	23.90		63	OT
203707	ENG	3	FASCO	23.89		64	OT
203708	ENG	3	FASCO	23.89		65	OT
203709	ENG	4	FASCO	23.89		64	OT
210701	LP	ACT	GMBL	7.37		72	OT
210702	LP	STB	GMBL	7.37		73	OT
210703	RP	ACT	GMBL	7.35		74	OT
210704	RP	STB	GMBL	7.37		72	OT
211501	BIPROP	VL1	LP	1.47		72	OT
211502	BIPROP	VL2	LP	1.47		73	OT
211503	BIPROP	VL1	RP	1.47		72	OT
211504	BIPROP	VL2	RP	1.47		74	OT
212104	TM	ISC/XFD	VL	32		72	AC
212401	CUAN	GAGE	TCI-LP	9.61	*	78	OT
212402	CUAN	GAGE	TOT-RP	9.61	*	80	OT
215101	ENG	SR	PN	10.71		72	OT
215102	ENG	SR	PN	10.71		72	OT
215103	OME	COVER	HT	37.91		72	OT
215104	Y-WB	OTBD	HT	26.85		72	OT
215105	Y-WB	INBD	HT	23.03		72	OT
215106	Y-WB	UPR	HT	6.06		72	OT
215107	CT	LN	WB	71.84		72	OT
215108	CT	LN	WB	71.84		72	OT
215109	CT	LN	WB	71.84		72	OT
215111	CT	LN	WB	71.84		72	OT
215112	RCS	HSNG	HT	77.53		72	OT
215113	RCS	HSNG	HT	77.53		72	OT
215301	ENG	SR	PN	10.71		72	OT
215302	ENG	SR	PN	10.71		72	OT
215303	OME	COVER	HT	37.91		72	OT
215304	Y-WB	OTBD	HT	26.85		72	OT
215305	Y-WB	INBD	HT	23.03		72	OT
215306	Y-WB	UPR	HT	6.06		72	OT
215307	CT	LN	WB	71.84		72	OT
215308	CT	LN	WB	71.84		72	OT

Figure 6.4-8. - Continued

215309	CT LN WB HT A3-22-RP	37.80	35.53	73	OT
215311	CT LN WB HT A4-22-RP	17.93	18.54	73	OT
215312	RCS HSNB HT A1-42-RP	22.71	19.20	73	OT
215313	RCS HSNB HT A2-42-RP	19.60	19.20	73	OT
217001	XFD OX/FU FLXL HTA-L	10.70	30.13	72	OT
217603	XFD OX/FU FLXL HTA-R	18.70	30.13	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217103	XFD OX/FU LNE HT-A-R	7.44	12.02	72	OT
217105	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HIPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HIPT BLDLN HT-A-M	6.74	27.75	72	OT
217301	OX HIPT BLDLN HT-A-A	4.65	30.80	72	OT
217303	OX HIPT BLDLN HT-A-M	6.98	28.71	72	OT
217401	LOPT OXFU DRLN HTA-L	1.40	17.66	72	OT
217403	LOPT OXFU DRLN HTA-R	1.40	17.66	72	OT
220101	FWD THRUSTER F1(-X)	.11	.15	22	OT
220103	FWD THRUSTER F2(-X)	.11	.15	23	OT
220105	FWD THRUSTER F3(-X)	.11	.15	24	OT
220111	FWD THRUSTER F3L(+Y)	.11	.15	24	OT
220201	AFT THRUSTER R1R(-Y)	.14	.20	78	OT
220204	AFT THRUSTER R2R(-Y)	.14	.20	80	OT
220207	AFT THRUSTER R3R(-Y)	.14	.20	79	OT
220214	AFT THRUSTER L1L(+Y)	.14	.20	78	OT
220217	AFT THRUSTER L2L(+Y)	.14	.20	80	OT
220228	AFT THRUSTER L3L(+Y)	.14	.20	79	OT
225103	FWD RCS HT-ENG F1(-X)	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT
225105	FWD RCS HT-ENG F2(-X)	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.03	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3(-X)	3.84	17.86	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.42	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.91	8	OT
225114	FWD RCS HT-ENG F4R-Y	1.58	7.33	9	OT
225115	FWD RCS HT-ENG F4D-Z	1.92	8.91	9	OT
225201	AFT RCS HT-ENG R1R-Y	.72	3.35	85	OT
225202	AFT RCS HT-ENG R2R-Y	.72	3.35	84	OT
225203	AFT RCS HT-ENG R3R-Y	.72	3.35	86	OT
225204	AFT RCS HT-ENG R4R-Y	.72	3.35	86	OT
225205	AFT RCS HT-ENG R2D-Z	.63	2.92	84	OT
225206	AFT RCS HT-ENG R3D-Z	.63	2.92	86	OT
225207	AFT RCS HT-ENG R4D-Z	.63	2.92	86	OT
225208	AFT RCS HT-ENG R1U+Z	1.07	4.98	85	OT
225209	AFT RCS HT-ENG R2U+Z	1.07	4.98	84	OT
225211	AFT RCS HT-ENG R4U+Z	1.07	4.98	86	OT
225212	AFT RCS HT-ENG R1A-X	1.07	3.31	85	OT
225213	AFT RCS HT-ENG R3A-X	2.37	7.34	86	OT
225301	AFT RCS HT-ENG L1L+Y	.72	3.35	85	OT
225302	AFT RCS HT-ENG L2L+Y	.72	3.35	84	OT
225303	AFT RCS HT-ENG L3L+Y	.72	3.35	86	OT
225304	AFT RCS HT-ENG L4L+Y	.72	3.35	86	OT
225305	AFT RCS HT-ENG L2D-Z	.63	2.92	84	OT
225306	AFT RCS HT-ENG L3D-Z	.63	2.92	86	OT

Figure 6.4-8. - Continued

225307	AFT PCS HT-ENG L40-2	.63	2.92	86	OT
225308	AFT PCS HT-ENG L110-2	1.07	4.98	85	OT
225309	AFT PCS HT-ENG L20-2	1.07	4.98	84	OT
225311	AFT PCS HT-ENG L40-2	1.07	4.98	86	OT
225312	AFT PCS HT-ENG L1A-X	1.07	3.31	85	OT
225313	AFT PCS HT-ENG L3A-X	2.37	7.34	86	OT
225401	FWD VRN HT-ENG F5R	1.21	11.16	9	OT
225402	FWD VRN HT-ENG F5L	1.06	9.77	9	OT
225501	AFT VRN HT-ENG R5D-2	1.84	7.75	86	OT
225502	AFT VRN HT-ENG R5R-Y	1.95	16.60	86	OT
225503	AFT VRN HT-ENG L5D-2	.84	7.75	86	OT
225504	AFT VRN HT-ENG L5L-Y	3.95	36.60	86	OT
300201	FCP -1 G2 FLOWMETER	6.37		47	OT
300202	FCP -2 G2 FLOWMETER	6.48		48	OT
300203	FCP -3 G2 FLOWMETER	6.52		49	OT
300301	FCP -1 H2 FLOWMETER	6.37		47	OT
300302	FCP -2 H2 FLOWMETER	6.48		48	OT
300303	FCP -3 H2 FLOWMETER	6.52		49	OT
300401	FCP1 EL CTL-ORBT	5.13		38	OT
300402	FCP2 EL CTL-ORBT	5.12		39	OT
300403	FCP3 EL CTL-ORBT	5.03		40	OT
300501	FCP1 PMP-H2O SENSOR	235.95		201	OT
300502	FCP2 PMP-H2O SENSOR	236.34		202	OT
300503	FCP3 PMP-H2O SENSOR	239.87		203	OT
305301	H2O VENT LN HTR A	.44	5.00	47	OT
305401	FCP1 H2O RLF VL HT A	.17	5.08	47	OT
305403	FCP2 H2O RLF VL HT A	.17	5.08	47	OT
305405	FCP3 H2O RLF VL HT A	.17	5.08	47	OT
305602	H2O NOZ PARREL HTR B	2.84	49.83	49	OT
305702	H2O NOZ ORIFICE HT B	23.99	49.92	49	OT
310301	H2 TNK1 SIG COND QTY	2.34		42	OT
310302	H2 TNK1 SIG COND QTY	2.34		42	OT
310303	H2 TNK2 SIG COND QTY	2.35		41	OT
310304	H2 TNK2 SIG COND QTY	2.55		41	OT
320301	APU1 CNTRLR-OPERATE	7.09		66	F4
320302	APU2 CNTRLR-OPERATE	7.09		67	F5
320303	APU3 CNTRLR-OPERATE	7.09		68	F6
325201	FUEL FEEDLINE HTR 1A	12.95	19.13	84	OT
325203	FUEL FEEDLINE HTR 2A	15.65	19.32	85	OT
325205	FUEL FEEDLINE HTR 3A	10.47	21.94	86	OT
325301	FUEL SERVLN HTR 1A	12.33	19.11	84	OT
325303	FUEL SERVLN HTR 2A	9.05	18.97	85	OT
325305	FUEL SERVLN HTR 3A	11.16	17.31	86	OT
325401	FUEL DRN LINE HTR 1A	7.79	18.96	84	OT
325403	FUEL DRN LINE HTR 2A	10.12	18.98	85	OT
325405	FUEL DRN LINE HTR 3A	5.58	17.07	86	OT
325501	TURB GAS GEN HTR 1A	32.79	57.73	84	OT
325503	TURB GAS GEN HTR 2A	32.79	57.73	85	OT
325505	TURB GAS GEN HTR 3A	32.79	57.73	86	OT
325701	OIL LINE HTR 1A	10.95	15.94	84	OT
325703	OIL LINE HTR 2A	11.37	16.02	85	OT
325705	OIL LINE HTR 3A	11.63	16.38	86	OT
325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	OT
325803	APU 2 PRI H2O HTR 1A	2.87	35.00	76	OT
325805	APU 3 PRI H2O HTR 1A	9.38	35.00	77	OT
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	OT
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT

Figure 6.4-8. - Continued

325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	OT			
326301	CG H2O TK LN HT 504A	4.37	35.00	75	OT			
326303	CG H2O TK LN HT 503A	7.94	35.00	77	OT			
400101	CAB IN FAN A	645.75		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TEMP CH EL-RR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	
400502	ARS HUM SEP SIG CND	2.35		217	AC			1.80A
400701	PP02 CNTLR SYS 1	.76		16	AC			
400702	PP02 CNTLR SYS 2	.76		17	AC			
400711	O2 CONTROL VLV SYS 1	5.11	50.00	16	AC			
400731	CAB IN PRESS SENSOR	.76		16	AC			
400732	CAB PHES-DECLAY SENS	2.18		17	AC			
400751	O2 FLOW SENSOR SYS 1	1.09		16	AC			
400752	O2 FLOW SENSOR SYS 2	1.09		17	AC			
400753	N2 FLOW SENSOR SYS 1	1.09		16	AC			
400754	N2 FLOW SENSOR SYS 2	1.09		17	AC			
400761	PP02 SENSOR-SYS 1	.87		16	AC			
400762	PP02 SENSOR-SYS 2	.87		17	AC			
400763	PP02 SENSOR-SYS 3	.87		17	AC			
400803	AVION FAN-BAY 1 (A)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.61		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC			2.40B
400902	AVION BAY 2 SIG COND	3.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	7.07		16	OT			
401002	SMOKE DT SNR-R FLT D	7.07		16	OT			
401003	S D SNR-A - BAY 1	7.08		18	OT			
401004	S D SNR-B - BAY 1	7.08		17	OT			
401005	S D SNR-A - BAY 2	7.07		16	OT			
401006	S D SNR-B - BAY 2	7.09		18	OT			
401007	S D SNR-A - BAY 3	7.08		17	OT			
401008	S D SNR-B - BAY 3	7.07		16	OT			
401009	S D SNR - CABIN	7.09		18	OT			
401102	IMU FAN R	63.53		202	WC		48.60	
401200	IMU FAN SIG COND	2.35		218	AC			1.80B
401303	H2O PUMP LOOP 2	250.72		203	WC			191.80
401501	H2O BYPASS CN SC-PRI	7.71		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.71		211	AC	5.90A		
402901	FREON PMP LP 1-A ASC	475.82		201	FP	374.00		
402903	FREON PMP LP 2-A ASC	475.82		203	FP			374.00
403001	RAD FLOW CNTLR A-LP1	2.18		17	OT			
403002	RD FL CTR A-LP1 FALT	1.63		17	OT			
403004	RD FL CTR B-LP1 FALT	1.63		16	OT			
403101	RAD FLOW CNTLR A-LP2	2.18		17	OT			
403102	RD FL CTR A-LP2 FALT	1.63		17	OT			
403104	RD FL CTR B-LP2 FALT	1.63		16	OT			
403201	RAD FL CNTL VLV-LP 1	6.10		17	OT			
403202	RAD FL CNTL VLV-LP 2	6.10		17	OT			
403601	FREON COOL LP1 INSTR	6.54		215	OT		5.00B	
403602	FREON COOL LP2 INSTR	6.54		218	OT			5.00B
403701	FES CONTROLLER PRI A	8.02		86	OT			
403901	FES TOP'G PLSR V-PRI	8.26	27.00	89	OT			
403921	TPNG V HLONG COIL-PR	3.13	80.00	5	OT			
406600	VACUUM VNT NOZ HTR	11.40			OT			

Figure 6.4-8. - Continued

408101	PRI FWTR LN HTA-TS5	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS6	1.82	14.46	84	OT			
408105	PRI FWTR LN HTA-TS7	7.75	15.16	47	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	84	OT			
408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408203	SEC FWTR LN HTA-TS12	2.87	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	9.43	18.46	49	OT			
408207	SEC FWTR LN HTA-TS3	3.95	18.17	86	OT			
409001	TOP*6 DUCT HTR1 SECC1	46.53	12.26	47	OT			
409101	TOP*6 DUCT HTR1 SECC2	116.26	24.81	47	OT			
409201	TOP*6 DUCT HTR1 SECC3	26.30	41.88	84	OT			
409301	TOP*6 DUCT HTR1 SECC4	26.30	40.59	84	OT			
409401	SONIC LFT NO2 HTR 1A	11.26	45.02	84	OT			
409501	SONIC RHT NO2 HTR 1A	11.12	45.02	84	OT			
500801	RESVOIR #1 VOL SNSR	1.83		212	OT	1.40B		
500802	RESVOIR #2 VOL SNSR	1.83		215	OT		1.40B	
500803	RESVOIR #3 VOL SNSR	1.83		218	OT			1.40B
503701	H2O BLR1 CNT LOGIC A	4.71		217	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79		214	OT		2.90A	
503801	H2O BOILP 1 CNTL A	.83		65	OT			
503803	H2O BOILP 2 CNTL A	.71		63	OT			
503805	H2O BOILP 3 CNTL A	.83		64	OT			
505301	WSR TK/BOILER HTR 1A	6.05	7.81	65	OT			
505303	WSR TK/BOILER HTR 2A	8.38	4.42	63	OT			
505305	WSR TK/BOILER HTR 3A	7.67	4.43	64	OT			
505401	WSR VENT NOZZ HTR 1A	73.60		65	OT			
505403	WSR VENT NOZZ HTR 2A	61.50		63	OT			
505405	WSR VENT NOZZ HTR 3A	59.10		64	OT			
		TOTAL INVERTER WATTS		1609.33		1061.90	1696.11	
		TOTAL 3 PHASE WATTS		958.60		591.00	1245.40	
		TOTAL A PHASE WATTS		200.90		155.80	12.80	
		TOTAL B PHASE WATTS		201.40		175.60	68.40	
		TOTAL C PHASE WATTS		1.00		.00	.00	

Figure 6.4-8. - Concluded

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TOTAL WATTS = 16025.38

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 023:15:00.0

Figure 6.4-9.- Vehicle configuration at 1 day 4 hours 15 minutes

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~~LISTING OF ALL ACTIVE COMPONENTS AT TIME 020:15:00.0~~

~~--NOTE--~~

~~DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.~~

~~--NOTE--~~

~~ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEC LISTING.~~

~~LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS~~

Figure 6.4-9. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	119.73			28	WC			
010102	IMU =2 OPERATE	119.74	*		29	WC			
010103	IMU =3 OPERATE	119.73	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.63			17	OT			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011001	ASA =1 IVD/UF-OPER	40.40	*		68	F4			
011002	ASA =2 IVD/UF-OPER	40.40	*		66	F5			
011003	ASA =3 IVD/UF-OPER	40.40	*		67	F6			
011004	ASA =4 IVD-OPER	16.67	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	16.66	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	16.66	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	16.66	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.66	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	RGA =1 OPR	24.96	*		78	FA			
011302	RGA =2 OPR	25.25	*		64	FA			
011303	RGA =3 OPR	25.24	*		49	FA			
011304	RGA =4 OPR	24.96	*		46	FA			
011401	ACCEL ASSY =1 - OPR	2.40			16	A1			
011402	ACCEL ASSY =2 - OPR	2.40			17	A2			
011403	ACCEL ASSY =3 - OPR	2.40			30	A2			
011404	ACCEL ASSY =4 - OPR	2.40			29	A1			
011601	THC-LH	3.20			19	AC			
011701	RMC-LH	4.85			19	AC			
011702	RMC-RH	4.86			20	AC			
011801	RPTA-LH	1.24			19	AC			
011802	RPTA-RH	1.24			20	AC			
011901	SBIC-LH	1.65			19	AC			
011902	SBIC-RH	1.66			20	AC			
020002	NTWK SIG PROCESSOR 2	28.87			34	W3			
021101	S-BAND FM XMITR =1	10.72		15.00	33	W3			
021200	S-BAND FM SIG PRD-OPR	7.76		15.00	36	A1			
021302	S-BND XPNDR=2-DIRECT	60.10	*		34	W3			
021401	S-BND PWR AMP 1-SBY	21.17	*		23	W3			
021402	S-BND PWR AMP 2-OPR	383.56	*		24	W3			
021600	S-BND ANT SL ASSY-QES	.57	*		31	A1			
021701	TACAN =1 SEARCH	209.15	*		213	A1	160.00C	160.00C	160.00C
021702	TACAN =2 SEARCH	209.15	*		216	A2			
021703	TACAN =3 SEARCH	209.49	*		219	A3			

Figure 6.4-9. - Continued

021901	MSBLS DCDR ASSY=1	56.93		16	A1
021902	MSBLS DCDR ASSY=2	59.19		18	A2
021903	MSBLS DCDR ASSY=3	54.91		18	A2
022001	MSBLS RF ASSY=1	16.06		16	A1
022002	MSBLS RF ASSY=2	16.67		17	A2
022003	MSBLS RF ASSY=3	16.51		18	A2
022101	RADAR ALTIMETER=1	23.98		16	W1
022102	RADAR ALTIMETER=2	23.97		17	W2
024101	AUDIO CENTER 1	39.59		42	W1
024201	AUDIO TERM UN-PLT RT	3.46		42	AC
024202	AUDIO TERM UN-CDR LT	3.47		41	AC
024203	AUDIO TERM UNIT-MSS	3.54		10	AC
024204	AUDIO TERM UNIT-PS	3.71		10	AC
024701	SPKR MIKE UNIT=OS	1.78	80.00	10	AC
024702	SPKR MIKE UNIT-MID OK	1.79	80.00	11	AC
024910	MULTIPLE HDSET ADPTR	7.69		41	AC
028101	TV CAM HTR-FWD PLB	7.96	40.00	11	OT
028102	TV CAM HTR-AFT PLB	7.96	40.00	10	OT
028105	TV CAM HTR-KEEL RAY	7.96	40.00	15	OT
028201	PAN TLT HTR-FWD BAY	3.28	40.00	11	OT
028202	PAN TLT HTR-AFT BAY	3.28	40.00	10	OT
028203	PAN TLT HTR-KEEL BAY	3.28	40.00	10	OT
030101	ADI=1 FWD LH	17.65		19	AC
030102	ADI=2 FWD RH	17.69		20	AC
030201	HST=1	27.84		16	AC
030202	HST=2	27.82		17	AC
030301	AMI=1	7.30		16	AC
030302	AMI=2	7.29		17	AC
030401	ALPHA MACH EL UNIT 1	32.74		16	HX
030402	ALPHA MACH EL UNIT 2	32.72		17	HX
030501	AVVI=1	7.30		16	AC
030502	AVVI=2	7.29		17	AC
030601	ALT VER VEL EL UN=1	25.63		16	HX
030602	ALT VER VEL EL UN=2	25.63		17	HX
030705	TAPE HTR M1(HYD PR)	9.38		17	AC
030706	TAPE HTR M2(HYD QTY)	9.38		17	AC
030707	TAPE HTR M3(APU)	9.38		17	AC
030708	TAPE HTR M4(APU OIL)	6.25		17	AC
031300	SPI	17.40		16	AC
031400	OMS/RCS PROP QTY IND	4.86		18	AC
031501	C+W PWR SUP A-STBY	21.20		41	A3
031502	C+W PWR SUP B-STBY	12.46		42	A3
031701	MISSION TIMER=1 FWD	3.65		16	AC
031702	MISSION TIMER=2 AFT	3.75		17	AC
031801	EVENT TIMER=1 FWD	3.13		17	AC
031802	EVENT TIMER=2 AFT	3.13		16	AC
032201	DCU=1 FWD LH	120.00		19	HX
032202	DCU=2 FWD RH	120.00		20	HX
032701	CRT DU=1 - LF	87.81		22	HX
032702	CRT DU=2 - RF	87.81		21	HX
032703	CRT DU=3 - CF	87.75		24	HX
032704	CRT DU=4 - MSS	87.75	*	24	HX
032801	DEU=1	202.00		22	HX
032802	DEU=2	202.00		23	HX
032803	DEU=3	202.00		24	HX
032804	DEU=4	202.00		24	HX
033101	PANEL LTS - LEFT/CTR	255.31		211	AC
					195.00A

Figure 6.4-9. - Continued

033102	PANEL LTS - LFT/OVHD	231.37		212	AC	177.008		
033103	PANEL LTS - RHT/OVHD	172.55		214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	75.56		218	AC			57.808
033202	INSTR LTS - OVERHEAD	35.95		215	AC		27.50B	
033301	INSTR LTS - RIGHT	65.07		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.50B		
033701	MID DECK PANEL LT =1	6.71		6	AC			
033702	MID DECK PANEL LT =2	5.07		4	AC			
034202	GLARSHLD FLDLT-LEFT	8.17	*	41	AC			
034203	GLARSHLD FLDLT-RIGHT	8.17	*	42	AC			
034205	RHT OVERHEAD FLDLT A	23.58		43	AC			
035600	C+W ANNUN ASSY-OPR	7.93	*	44	AC			
037200	CICU - OPER	6.92	*	45	AC			
037301	ACA =1	13.45		16	AC			
037302	ACA =2/3	27.02		17	AC			
037303	ACA =4/5	24.27		18	AC			
037401	ANNUN 1	2.89		16	AC			
037402	ANNUN 2/3	5.38		17	AC			
037403	ANNUN 4/5	4.52		18	AC			
040301	PCM MASTER UNIT =1	55.00		30	W1			
040401	QCS -1 RECORDER-REPLY	16.18	*	28	W2			
040402	QCS -2 RECORDER-REPLY	53.32	*	29	W2			
040501	DED SIG CND OF1- FWD	22.80		19	W1			
040502	DED SIG CND OF2- FWD	32.60		20	W2			
040503	DED SIG CND OF3- FWD	26.80		20	W3			
040601	DED SIG CND OA1- AFT	36.20		66	F4			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPER	30.54		43	W4			
041201	DSC OL1 OMS/RCS	23.30		78	OT			
041202	DSC OL2 OMS/RCS	21.40		80	OT			
041203	DSC OR1 OMS/RCS	23.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WDRND S/C =1 (BAY4)	.40		63	OT			
041602	WDRND S/C =2 (BAY4)	.40		63	OT			
041603	WDRND S/C =3 (BAY4)	.40		63	OT			
041604	WDRND S/C =4 (BAY4)	.40		63	OT			
041701	WDRND S/C =1 (BAY5)	.40		63	OT			
041702	WDRND S/C =2 (BAY5)	.40		64	OT			
050100	PWR DIST ASSY FWD	10.57		12	DW			
050201	PWR DIST ASSY =1 MID	9.73		44	D1			
050202	PWR DIST ASSY =2 MID	9.73		44	D2			
050203	PWR DIST ASSY =3 MID	9.73		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FWD =1-SDF1	22.20		12	DW			
050402	DSC FWD =2-SDF2	22.20		12	DW			
050403	DSC FWD =3-SDF3	22.56		12	DW			
050501	DSC UNIT #1 - SCL1	16.60		44	D1			
050502	DSC UNIT #2 - SCL2	24.70		44	D1			
050503	DSC UNIT #3 - SCL3	16.60		44	D1			
050504	DSC UNIT #4 - SCL4	24.70		44	D1			
050505	DSC UNIT #5 - SCL5	46.70		44	D1			
050506	DSC UNIT #1 - SDR1	16.60		44	D2			
050507	DSC UNIT #2 - SDR2	24.70		44	D2			

Figure 6.4-9. - Continued

050508	DSC UNIT #3 - SDR3	16.60	44	02		
050509	DSC UNIT #4 - SDR4	16.60	44	02		
050601	DSC UNIT #1 - SDC1	16.60	44	03		
050602	DSC UNIT #2 - SDC2	23.90	44	03		
050603	DSC UNIT #3 - SDC3	16.60	44	03		
050604	DSC UNIT #4 - SDC4	17.70	44	03		
050605	DSC UNIT #5 - SDC5	16.60	44	03		
050701	WB FDM 1A (FMF1)-FWD	13.21	50.00	12	DW	
050702	WB FDM 1B (FMF1)-FWD	13.21	50.00	12	DW	
050820	FREON FLOWTR-MID-LT	1.99	47	03		
050831	LCAD SEN ACCEL-1 FWD	3.70	12	DW		
050832	LOAD SEN ACCEL-2 FWD	3.70	12	DW		
050833	LOAD SEN ACCEL-MR 2	13.95	47	02		
050834	LOAD SEN ACCEL-MR 3	10.47	47	02		
050930	PCM RCDR-RECD-SERIAL	59.17	12	DW		
051011	WBSC FWD (A131)-100%	2.96	12	DW		
051332	WBSC LM3 (A145)-100%	2.79	47	03		
051333	WBSC LM3 (A145)-100%	1.19	47	03		
051501	SGSC FWD (A161)-100%	24.41	12	DW		
051502	SGSC FWD (A161)-100%	17.33	12	DW		
051611	SGSC ML1 (A162)-100%	92.46	47	01		
051621	SGSC ML1 (A163)-100%	65.26	47	01		
051624	SGSC ML1 (A163)-100%	7.68	47	01		
051625	SGSC ML1 (A163)-100%	30.69	47	01		
051631	SGSC MR2 (A164)-100%	114.31	48	02		
051632	SGSC MR2 (A164)-100%	23.04	48	02		
051641	SGSC MR2 (A165)-100%	103.44	48	02		
051642	SGSC MR2 (A165)-100%	38.40	48	02		
051651	SGSC MR2 (A169)-100%	70.82	48	02		
051654	SGSC MR2 (A169)-100%	30.72	48	02		
051661	SGSC ML3 (A166)-100%	76.21	48	03		
051671	SGSC ML3 (A167)-100%	59.85	48	03		
051673	SGSC ML3 (A167)-100%	23.04	48	03		
051700	MDM DF1 - FWD	53.90	12	DW		
051801	MDM DL1 - MID LEFT 1	50.00	44	01		
051802	MDM DL2 - MID LEFT 1	50.20	44	01		
051803	MDM DR1 - MID RIGHT 2	50.00	44	02		
051804	MDM DR2 - MID RIGHT 2	52.80	44	02		
051805	MDM DC1 - MID LEFT 3	49.10	44	03		
051806	MDM DC2 - MID LEFT 3	52.50	44	03		
051900	S-RAND FM XMITR-DFI	126.79	12	DW		
052200	ARS DFI SIGNAL COND	8.10	21	01		6.25
052300	ATCS DFI SIGNAL COND	1.96	21	01		1.50A
052401	DFI FREON PUMP #1	306.06	201	01	234.00	
052500	3-AXIS ACCEL	1.80	12	01		
060901	GRND CHDS INTEC UN A	28.32	31	A1		
061001	INV DIST+CTL ASY1-DC	.59	41	A1	2.10	
061002	INV DIST+CTL ASY1-AC	2.75	201	A2		
061003	INV DIST+CTL ASY2-DC	.59	41	A2	2.10	
061004	INV DIST+CTL ASY2-AC	2.75	201	A3		
061005	INV DIST+CTL ASY3-DC	.59	41	A3	2.10	
061006	INV DIST+CTL ASY3-AC	2.75	201	01		
061701	CURR SENSOR-MIDBDY=1	3.44	8	01		
061702	CURR SENSOR-MIDBDY=2	3.46	9	01		
061703	CURR SENSOR-MIDBDY=3	3.46	64	01		
061704	CURR SENSOR-PL MN B	1.10	65	01		
061705	CURR SENSOR-PL MN C	1.10	65	01		

Figure 6.4-9. - Continued

061706	CURR SENSOR-LH ADP	1.07		22	OT
061707	CURR SENSOR-LH ADP	1.07		23	OT
061708	CURR SENSOR-RH ADP	1.07		23	OT
061709	CURR SENSOR-RH ADP	1.93		7	FM
061801	H202 CRYO ASSY18-QUESS	12.01		9	FM
061802	H202 CRYO ASSY18-QUESS	12.00		8	FM
061811	H202 CRYO ASSY2A-QUESS	12.01		9	FM
061812	H202 CRYO ASSY2B-QUESS	12.95	15.00	22	W1
062101	MTR CNTL ASSY FWD 1	3.66	12.53	23	W2
062102	MTR CNTL ASSY FWD 2	4.98	18.90	24	W3
062103	MTR CNTL ASSY FWD 3	11.98	22.80	44	FM
062201	MTR CNTL ASSY MID 1	12.44	13.50	45	FM
062202	MTR CNTL ASSY MID 2	10.42	20.20	44	FM
062203	MTR CNTL ASSY MID 3	12.29	13.20	45	FM
062204	MTR CNTL ASSY MID 4	9.04	20.00	63	F4
062301	MTR CNTL ASSY AFT 1	8.52	20.70	64	F5
062302	MTR CNTL ASSY AFT 2	15.36	30.60	65	F6
062303	MTR CNTL ASSY AFT 3	21.81	28.00	32	W1
062401	LOAD CNTL ASSY FWD1	26.01	30.61	33	W2
062402	LOAD CNTL ASSY FWD2	25.63	30.18	34	W3
062403	LOAD CNTL ASSY FWD3	21.69	25.61	84	F4
062501	LOAD CNTL ASSY AFT1	72.10	27.47	85	F5
062502	LOAD CNTL ASSY AFT2	75.17	34.81	86	F6
062503	LOAD CNTL ASSY AFT3	95.57	30.03	22	W1
062601	PCA FWD 1	40.26	12.65	23	W2
062602	PCA FWD 2	44.31	13.93	24	W3
062603	PCA FWD 3	40.46	35.31	47	FM
062701	PCA MID 1	48.13	41.96	48	FM
062702	PCA MID 2	12.81	28.43	49	FM
062703	PCA MID 3	29.53	34.55	72	F4
062801	PCA AFT 1	28.90	33.81	73	F5
062802	PCA AFT 2	26.35	30.85	74	F6
062803	PCA AFT 3	26.23	30.68	60	F4
062804	PCA AFT 4	30.65	35.86	61	F5
062805	PCA AFT 5	19.43	22.73	62	F6
062806	PCA AFT 6	13.00		31	A1
070101	GPC CPU#1-RUN	13.00		31	A2
070102	GPC CPU#2-RUN	13.00		31	A3
070103	GPC CPU#3-RUN	13.00	*	31	A1
070104	GPC CPU#4-RUN	13.00	*	31	A2
070105	GPC CPU#5-RUN	140.00		31	A1
070201	GPC IOP#1-RUN	140.00		31	A2
070202	GPC IOP#2-RUN	140.00		31	A3
070203	GPC IOP#3-RUN	140.00	*	31	A1
070204	GPC IOP#4-RUN	140.00	*	31	A2
070205	GPC IOP#5-RUN	58.90		28	W1
070301	HDM FF1	60.00		29	W2
070302	HDM FF2	55.50		30	W3
070303	HDM FF3	58.60		29	W2
070304	HDM FF4	54.80		66	F4
070401	HDM FA1	54.20		67	F5
070402	HDM FA2	52.60		68	F6
070403	HDM FA3	52.60		68	F6
070404	HDM FA4	19.51	*	22	W1
070901	PM =1 TAPE OPER	19.51	*	23	W2
070902	PM =2 TAPE OPER	19.51	*	19	W1
071001	HDM OFI 1	46.80			

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Figure 6.4-9. - Continued

071002	MDM OFI 2	46.80	19	W2
071003	MDM OFI 3	47.40	21	W3
071004	MDM OFI 4 FLT DECK	40.40	21	W4
071101	MDM OAI 1	41.30	66	F4
071102	MDM OAI 2	42.10	67	F5
071103	MDM OAI 3	42.78	68	F6
071401	MDM PL 1	54.40	28	U1
071402	MDM PL 2	56.90	29	U2
075001	GPC CNTLR 1 PS A	6.95	31	A1
075002	GPC CNTLR 1 PS B	6.95	31	A2
075003	GPC CNTLR 2 PS A	6.95	31	A2
075004	GPC CNTLR 2 PS B	6.95	31	A2
075005	GPC CNTLR 3 PS A	6.95	31	A2
075006	GPC CNTLR 3 PS B	6.95	31	A2
203701	ENG 1 FASCOS SYS A	23.10	63	OT
203702	ENG 1 FASCOS SYS B	23.10	64	OT
203703	ENG 1 FASCOS SYS C	23.10	65	OT
203704	ENG 2 FASCOS SYS A	23.10	64	OT
203705	ENG 2 FASCOS SYS B	23.10	64	OT
203706	ENG 2 FASCOS SYS C	23.10	63	OT
203707	ENG 3 FASCOS SYS A	23.10	63	OT
203708	ENG 3 FASCOS SYS B	23.10	64	OT
203709	ENG 3 FASCOS SYS C	23.10	65	OT
210701	LP ACT GMBL INST/LOG	7.12	72	OT
210702	LP STB GMBL INST/LOG	7.12	73	OT
210703	RP ACT GMBL INST/LOG	7.12	74	OT
210704	RP STB GMBL INST/LOG	7.12	72	OT
211501	BIPROP VL1 LP POS ID	1.42	72	OT
211502	BIPROP VL2 LP POS ID	1.42	73	OT
211503	BIPROP VL1 RP POS ID	1.42	72	OT
211504	BIPROP VL2 RP POS ID	1.42	74	OT
212106	TK ISO/XFD VL TLKBC	9.31	72	AC
212401	QUAN GAGE TOT-LP-OPR	9.30	78	OT
212402	QUAN GAGE TOT-RP-OPR	9.31	80	OT
215101	GSE SR PN HT A-43-LP	9.77	72	OT
215102	ENG SR PN HT A-37-LP	10.71	72	OT
215103	OME COVER HT A-53-LP	37.91	72	OT
215104	Y-WB OTBD HT A-22-LP	26.86	72	OT
215105	Y-WB INBD HT A-33-LP	23.03	72	OT
215106	Y-WB UPB HT A-31-LP	6.06	72	OT
215107	CT LN WB HT A1-21-LP	71.84	35.53	73
215108	CT LN WB HT A2-21-LP	75.64	35.53	72
215109	CT LN WB HT A3-21-LP	37.80	35.53	72
215111	CT LN WB HT A4-21-LP	77.53	35.53	72
215112	RCS HSNL HT A1-41-LP	22.71	19.20	72
215113	RCS HSNL HT A2-41-LP	16.60	19.20	72
215301	GSE SR PN HT A-44-RP	9.77	22.71	73
215302	ENG SR PN HT A-38-RP	10.71	16.61	73
215303	OME COVER HT A-54-RP	37.91	35.23	73
215304	Y-WB OTBD HT A-26-RP	26.86	24.96	73
215305	Y-WB INBD HT A-34-RP	23.03	21.40	73
215306	Y-WB UPB HT A-32-RP	6.06	5.63	73
215307	CT LN WB HT A1-22-RP	71.84	35.53	73
215308	CT LN WB HT A2-22-RP	75.64	35.53	73
215309	CT LN WB HT A3-22-RP	37.80	35.53	73
215311	CT LN WB HT A4-22-RP	77.53	35.53	73
215312	RCS HSNL HT A1-42-RP	22.71	19.20	73

Figure 6.4-9. - Continued

215213	RCS HSNG HT A2-42-RP	19.60	19.20	73	OT
217001	XFD OX/FU FLXL HTA-L	10.70	30.13	72	OT
217003	XFD OX/FU FLXL HTA-R	10.70	30.13	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217103	XFD OX/FU LNE HT-A-R	7.44	12.02	72	OT
217105	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HIPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HIPT BLDLN HT-A-M	6.74	27.75	72	OT
217301	OX HIPT BLDLN HT-A-A	4.65	30.80	72	OT
217303	OX HIPT BLDLN HT-A-M	4.68	28.71	72	OT
217401	LOPT OXFU DRLN HTA-L	1.40	17.66	72	OT
217403	LOPT OXFU DRLN HTA-R	1.40	17.66	72	OT
220101	FWD THRUSTER F1F(-X)	.10	.15	22	OT
220103	FWD THRUSTER F2F(-X)	.10	.15	23	OT
220109	FWD THRUSTER F3F(-X)	.10	.15	24	OT
220111	FWD THRUSTER F3L(+Y)	.10	.15	24	OT
220201	AFT THRUSTER R1R(-Y)	.14	.20	78	OT
220204	AFT THRUSTER R2R(-Y)	.14	.20	80	OT
220207	AFT THRUSTER R3R(-Y)	.14	.20	79	OT
220214	AFT THRUSTER L1L(+Y)	.14	.20	78	OT
220217	AFT THRUSTER L2L(+Y)	.14	.20	80	OT
220221	AFT THRUSTER L3L(+Y)	.14	.20	79	OT
225101	FWD RCS HT-ENG F1F-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT
225105	FWD RCS HT-ENG F2F-X	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.01	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3F-X	3.84	17.85	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.42	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.91	8	OT
225114	FWD RCS HT-ENG F4P-Y	1.58	7.33	9	OT
225115	FWD RCS HT-ENG F4U+Z	1.92	8.91	9	OT
225201	AFT RCS HT-ENG R1R-Y	.72	3.35	85	OT
225202	AFT RCS HT-ENG R2R-Y	.72	3.35	84	OT
225203	AFT RCS HT-ENG R3R-Y	.72	3.35	86	OT
225204	AFT RCS HT-ENG R4R-Y	.72	3.35	86	OT
225205	AFT RCS HT-ENG R2D-Z	.63	2.92	84	OT
225206	AFT RCS HT-ENG R3D-Z	.63	2.92	86	OT
225207	AFT RCS HT-ENG R4D-Z	.63	2.92	86	OT
225208	AFT RCS HT-ENG R1U+Z	1.07	4.98	85	OT
225209	AFT RCS HT-ENG R2U+Z	1.07	4.98	84	OT
225211	AFT RCS HT-ENG R4U+Z	1.07	4.98	86	OT
225212	AFT RCS HT-ENG R1A+X	1.07	3.31	85	OT
225213	AFT RCS HT-ENG R3A+X	2.37	7.34	86	OT
225301	AFT RCS HT-ENG L1L+Y	.72	3.35	85	OT
225302	AFT RCS HT-ENG L2L+Y	.72	3.35	84	OT
225303	AFT RCS HT-ENG L3L+Y	.72	3.35	86	OT
225304	AFT RCS HT-ENG L4L+Y	.72	3.35	86	OT
225305	AFT RCS HT-ENG L2D-Z	.63	2.92	84	OT
225306	AFT RCS HT-ENG L3D-Z	.63	2.92	86	OT
225307	AFT RCS HT-ENG L4D-Z	.63	2.92	86	OT
225308	AFT RCS HT-ENG L1U+Z	1.07	4.98	85	OT
225309	AFT RCS HT-ENG L2U+Z	1.07	4.98	84	OT

Figure 6.4-9. - Continued

225311	AFT RCS HT-ENG L4U+Z	1.07	4.98	86	OT			
225312	AFT RCS HT-ENG L1A+Y	1.07	3.31	85	OT			
225313	AFT RCS HT-ENG L3A+X	2.37	7.34	86	OT			
225401	FWD VRM HT-ENG FSR	1.21	11.16	9	OT			
225402	FWD VRM HT-ENG FSL	1.06	9.77	9	OT			
225501	AFT VRM HT-ENG RSD-2	3.95	7.75	26	OT			
225502	AFT VRM HT-ENG RSR-Y	3.84	36.60	86	OT			
225503	AFT VRM HT-ENG L5D-2	3.84	7.75	86	OT			
225504	AFT VRM HT-ENG L5L+Y	3.95	36.60	86	OT			
300201	FCP1 H2 FLOW METER	6.18		47	OT			
300202	FCP2 H2 FLOW METER	6.28		48	OT			
300203	FCP3 H2 FLOW METER	6.32		49	OT			
300301	FCP1 H2 FLOW METER	6.18		47	OT			
300302	FCP2 H2 FLOW METER	6.28		48	OT			
300303	FCP3 H2 FLOW METER	6.32		49	OT			
300401	FCP1 EL CIL-ORBT	4.95		38	OT			
300402	FCP2 EL CIL-ORBT	4.94		38	OT			
300403	FCP3 EL CIL-ORBT	4.85		39	OT			
300501	FCP1 PMP+H2O SENSOR	236.02		201	OT	180.50		
300502	FCP2 PMP+H2O SENSOR	236.34		202	OT		180.80	
300503	FCP3 PMP+H2O SENSOR	240.02		203	OT			183.50
300504	FCP3 C2 PRO/DUAL EDV	10.84		49	OT			
300703	FCP3 GH2 PURGE VALVE	10.94		49	OT			
305101	G02 PRG LNE HTR AUT	40.70		48	OT			
305201	G02 PRG LNE HTR AUT	51.60		48	OT			
305301	H2O VENT LN HTR A	.44	5.00	47	OT			
305401	FCP1 H2O RLF VL HT A	.17	5.08	47	OT			
305403	FCP2 H2O RLF VL HT A	.17	5.08	47	OT			
305405	FCP3 H2O RLF VL HT A	.17	5.08	47	OT			
305406	H2O H02 BARREL HTR B	2.84	49.83	49	OT			
305702	H2O H02 ORIFICE HT B	23.99	49.98	49	OT			
310301	G2 TNK1 SIG COND QTY	2.28		42	OT			
310302	H2 TNK1 SIG COND QTY	2.28		42	OT			
310303	G2 TNK2 SIG COND QTY	2.28		41	OT			
310304	H2 TNK2 SIG COND QTY	2.48		41	OT			
320301	APU1 CNTLR-OPERATE	6.86		67	FS			
320302	APU2 CNTLR-OPERATE	6.86		67	FS			
320303	APU3 CNTLR-OPERATE	6.86		67	FS			
325201	FUEL FEEDLINE HTR 1A	12.95	19.13	84	OT			
325203	FUEL FEEDLINE HTR 2A	15.65	19.32	85	OT			
325205	FUEL FEEDLINE HTR 3A	10.47	21.94	86	OT			
325301	FUEL SERVLINE HTR 1A	12.12	18.11	84	OT			
325303	FUEL SERVLINE HTR 2A	9.05	18.97	85	OT			
325305	FUEL SERVLINE HTR 3A	11.16	17.31	86	OT			
325401	FUEL DPN LINE HTR 1A	7.79	18.96	84	OT			
325403	FUEL DPN LINE HTR 2A	10.12	18.92	85	OT			
325405	FUEL DPN LINE HTR 3A	5.58	17.07	86	OT			
325601	TURB GAS GEN HTR 1A	32.79	57.73	84	OT			
325603	TURB GAS GEN HTR 2A	32.79	57.73	85	OT			
325605	TURB GAS GEN HTR 3A	32.79	57.73	86	OT			
325701	CIL LINE HTR 1A	10.95	15.94	84	OT			
325703	OIL LINE HTR 2A	11.37	16.02	85	OT			
325705	OIL LINE HTR 3A	11.63	16.38	86	OT			
325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	OT			
325803	APU 2 PRI H2O HTR 1A	7.87	35.00	76	OT			
325805	APU 3 PRI H2O HTR 1A	9.38	35.00	77	OT			
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	OT			

Figure 6.4-9. - Continued

325903	APU 2 SEC H2O HTR 2A	4.79	35.00	75	OT			
325903	APU 3 SEC H2O HTR 2A	4.79	35.00	75	OT			
326301	GG H2O TK LN HT 504A	4.37	35.00	75	OT			
326303	GG H2O TK LN HT 503A	7.94	35.00	77	OT			
400101	CABIN FAN A	646.16		203	HX		494.00	
400201	CAB AIR TEMP-ENT-PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		212	AC		28.50	
400600	ARS HUM SEP SIG CND	2.35		212	AC			1.80A
400701	PP02 CNTLR-SYS 1	.73		16	AC			
400702	PP02 C TLR-SYS 2	.73		16	AC			
400711	OZ CONTROL VLV-SYS 1	4.90	50.00	16	AC			
400712	OZ CONTROL VLV-SYS 2	4.90	50.00	16	AC			
400731	CABIN PRESS SENSOR	.73		16	AC			
400732	CAB PRES DECCAY SENSR	2.08		16	AC			
400751	OZ FLOW SENSOR-SYS 1	1.04		16	AC			
400752	OZ FLOW SENSOR-SYS 2	1.04		16	AC			
400753	N2 FLOW SENSOR-SYS 1	1.04		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.04		16	AC			
400761	PP02 SENSOR-SYS 1	.83		16	AC			
400762	PP02 SENSOR-SYS 2	.83		16	AC			
400763	PP02 SENSOR-SYS 3	.83		16	AC			
400802	AVION FAN-BAY 1 (B)	219.61		212	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		212	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.73		212	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		212	AC			2.40B
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27		212	AC		2.50B	
401001	SMOKE DT SNR-L FLT-D	6.78		16	OT			
401002	SMOKE DT SNR-R FLT-D	6.78		16	OT			
401003	S D SNR A - BAY 1	6.81		18	OT			
401004	S D SNR B - BAY 1	6.77		17	OT			
401005	S D SNR A - BAY 2	6.76		16	OT			
401006	S D SNR B - BAY 2	6.81		18	OT			
401007	S D SNR A - BAY 3	6.77		17	OT			
401008	S D SNR B - BAY 3	6.76		16	OT			
401009	S D SNR - CABIN	6.81		18	OT			
401102	IMU FAN B	63.53		202	WC		48.60	
401200	IMU FAN SIG COND	2.35		203	WC			1.80B
401303	H2O PUMP - LOOP 2	250.88		212	AC			191.80
401501	H2O BYPASS CN SC-PRI	7.71		212	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.72		211	AC	5.90A		
402901	FREON PHP LP 1-A ASC	489.17		203	FP	374.00		
402903	FREON PHP LP 2-A ASC	489.19		203	FP			374.00
403401	FREON COOL LP1 INSTR	6.54		215	OT		5.00B	
403602	FREON COOL LP2 INSTR	6.54		218	OT			5.00B
403701	FES CONTROLLER PRI A	7.78		86	OT			
403801	FES HI LD PLSR V-PRI	29.65		89	OT			
403811	FES HI LD ISO VL-PRI	29.65		89	OT			
403901	FES TOP*G PLSR V-PRI	29.65		89	OT			
403921	TPNG V HLONG COIL-PR	3.79		89	OT			
406000	VACUUM VNT NOZ HTR	11.40		5	OT			
408101	PRI FWTR LN HTA-TS5	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS6	3.02	14.26	84	OT			
408105	PRI FWTR LN HTA-TS7	7.75	15.16	47	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	84	OT			

Figure 6.4-9. - Continued

408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408201	SEC FWTR LN HTA-TS12	2.81	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	9.43	18.46	49	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	86	OT			
409101	TOP*G DUCT HTR1 SEC1	46.53	12.28	47	OT			
409101	TOP*G DUCT HTR1 SEC2	116.26	24.81	47	OT			
409201	TOP*G DUCT HTR1 SEC3	26.30	41.88	84	OT			
409301	TOP*G DUCT HTR1 SEC4	26.30	40.59	84	OT			
409401	SONIC LFT NOZ HTR 1A	11.26	45.02	85	OT			
409501	SONIC RNT NOZ HTR 2A	11.12	45.02	85	OT			
500801	RESVOIR #1 VOL SNSR	1.83		212	OT	1.40B		
500802	RESVOIR #2 VOL SNSR	1.83		215	OT		1.40B	
500803	RESVOIR #3 VOL SNSR	1.83		218	OT			1.40B
503101	H2O BLR1 CNT LOGIC A	4.71		217	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79		214	OT		2.90A	
503801	H2O BOILER 1 CNTL A	.80		65	OT			
503803	H2O BOILER 2 CNTL A	.70		63	OT			
503805	H2O BOILER 3 CNTL A	.80		64	OT			
505301	MSR TK/BOILER HTR 1A	6.05	3.81	65	OT			
505303	MSR TK/BOILER HTR 2A	8.38	5.42	63	OT			
505305	MSR TK/BOILER HTR 3A	7.67	4.83	64	OT			
522701	BRK/SKID CNTL BOX A	18.28		30	A1			
522702	BRK/SKID CNTL BOX B	18.28		29	A2			
600100	CREW OPTIC ALIGN SGHT	16.34		217	AC			12.50A
600301	ESCAPE SUIT VT ASY 1	97.52		11	AC			
600302	ESCAPE SUIT VT ASY R	97.06		10	AC			
		TOTAL INVERTER WATTS =						
		2058.24						
		1223.37						
		1960.97						
		TOTAL 3 PHASE WATTS =						
		958.60						
		591.00						
		1245.40						
		TOTAL A PHASE WATTS =						
		250.60						
		155.80						
		25.30						
		TOTAL B PHASE WATTS =						
		201.40						
		42.60						
		68.40						
		TOTAL C PHASE WATTS =						
		163.00						
		160.00						
		160.00						

Figure 6.4-9. - Concluded

TOTAL WATTS - 19127.16

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 028:15:00.0

Figure 6.4-10.-Vehicle configuration at 1 day 7 hours 45 minutes

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 031:45:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

OPBITR INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-10. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	120.52			28	WC			
010102	IMU =2 OPERATE	120.53	*		29	WC			
010103	IMU =3 OPERATE	120.52	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.65			17	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011601	THC-LH	3.32			19	AC			
011701	PHC-LH	5.03			19	AC			
011702	PHC-RH	5.04			20	AC			
011601	RPTA-LH	1.29			19	AC			
011802	RPTA-RH	1.29			20	AC			
011901	SBTC-LH	1.71			19	AC			
011902	SBTC-RH	1.71			20	AC			
020802	NTWK SIG PROCESSOR 2	29.77			34	W3			
021101	S-BAND FM XMTR =1	11.05		15.00	33	W3			
021200	S-BAND FM SIG PRO-ORB	1.79		15.00	36	A3			
021302	S-BND XPNDR=2-DIRECT	61.96	*		34	W3			
021600	S-BND ANT SW ASY-OES	1.58	*		33	A3			
024101	AUDIO CENTER 1	40.50			42	W1			
024201	AUDIO TERM UN-PLT RT	3.55			42	AC			
024202	AUDIO TERM UN-CDR LT	3.55			41	AC			
024203	AUDIO TERM UNIT-MSS	3.63			10	AC			
024204	AUDIO TERM UNIT-PS	3.80			15	AC			
024701	SPKR MIKE UNIT -OS	1.83		80.00	10	AC			
024702	SPKR MIKE UNIT-MID CK	1.84		80.00	11	AC			
024901	HDSET INTF UNIT-PLT	.71			42	AC			
024902	HDSET INTF UNIT-CHOR	.71			41	AC			
024903	MULTIPLE HDSET ADPTR	.71			41	AC			
028101	TV CAM HTR-FWD PLB	7.96		40.00	11	OT			
028102	TV CAM HTR-AFT PLB	7.96		40.00	10	OT			
028105	TV CAM HTR-KEEL BAY	7.96		40.00	15	OT			
028201	PAN TLT HTR-FWD BAY	3.28		40.00	11	OT			
028202	PAN TLT HTR-AFT BAY	3.28		40.00	10	OT			
028203	PAN TLT HTR-KEEL BAY	3.28		40.00	15	OT			
030101	ADI =1 FWD LH	18.31			19	AC			
030102	ADI =2 FWD RH	18.32			20	AC			
030103	ADI =3 AFT	18.34			21	AC			
031400	OMS/RCS PROP QTY IND	4.31			18	AC			
031500	C-W PWR SUP A-STBY	21.69			41	A3			
031502	C-W PWR SUP B-STBY	13.77			42	A3			
031701	MISSION TIMER =1 FWD	3.77			16	AC			
031702	MISSION TIMER =2 AFT	3.89			17	AC			
031801	EVENT TIMER =1 FWD	3.24			17	AC			
031802	EVENT TIMER =2 AFT	3.24			16	AC			
032201	DDU =1 FWD LH	120.00			19	HX			
032202	DDU =2 FWD RH	120.00			20	HX			
032203	DDU =3 AFT	120.00			21	HX			

Figure 6.4-10. - Continued

032701	CRT DU =1 - LF	90.55		22	HX			
032702	CRT DU =2 - RF	90.55		22	HX			
032703	CRT DU =3 - CF	90.57		24	HX			
032801	DEU =1	202.00		22	HX			
032802	DEU =2	202.00		23	HX			
032803	DEU =3	202.00		24	HX			
033101	PANEL LTS - LEFT/CTR	170.78	67.00	211	AC	195.00A		
033102	PANEL LTS - LFT/OVHD	155.02	67.00	212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	116.48	67.00	215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	115.61	67.00	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	50.62	67.00	218	AC			57.60B
033202	INSTR LTS - OVERHEAD	24.08	67.00	215	AC		27.50B	
033203	INSTR LTS - RIGHT	64.97		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.50B		
033501	MID DK FLDLT 1	1.71	10.00	4	AC			
033502	MID DK FLDLT 2	1.72	10.00	5	AC			
033503	MID DK FLDLT 3	1.72	10.00	6	AC			
033504	MID DK FLDLT 4	1.72	10.00	6	AC			
033506	MID DK FLDLT 6	1.72	*	5	AC			
033507	MID DK FLDLT 7	1.72	*	6	AC			
033508	MID DK FLDLT 8	1.71	*	4	AC			
033701	MID DECK PANEL LT =1	6.87		6	AC			
033702	MID DECK PANEL LT =2	6.84		4	AC			
034202	GLARSHLD FLDLT-LEFT	8.36	*	41	AC			
034203	GLARSHLD FLDLT-RGHT	8.35	*	42	AC			
035600	C-M ANNUN ASSY-OPR	8.11	*	41	AC			
037200	CICU - OPER	7.08	*	43	A1			
037301	ACA =1	13.91	13.80	16	AC			
037302	ACA =2/3	27.99	13.70	17	AC			
037303	ACA =4/5	25.04	15.60	16	AC			
037401	ANNUN 1	2.99	6.70	16	AC			
037402	ANNUN 2/3	2.57	6.70	17	AC			
037403	ANNUN 4/5	4.66	6.70	18	AC			
040301	PEM MASTER UNIT =1	54.80		30	W1			
040401	OPS-1 RECORDER-REPLY	16.69	*	28	W2			
040402	OPS-2 RECORDER-REPLY	55.00	*	29	W2			
040403	PAYLD RECORDER-REPLY	33.50	*	30	W1			
040501	DED SIG CND OF1 - FWD	22.80		19	W1			
040502	DED SIG CND OF2 - FWD	42.60		20	W2			
040503	DED SIG CND OF3 - FWD	26.80		20	W3			
040601	DED SIG CND OA1 - AFT	36.20		66	F4			
040602	DED SIG CND OA2 - AFT	36.10		67	F5			
040603	DED SIG CND OA3 - AFT	29.10		68	F6			
040900	MTU - OPER	31.27		43	W4			
041201	DSC CL1 OMS/RCS	23.30		78	OT			
041202	DSC CL2 OMS/RCS	23.30		80	OT			
041203	DSC OR1 OMS/RCS	23.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	26.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WDBND S/C =1 (BAY4)	.41		63	OT			
041602	WDBND S/C =2 (BAY4)	.41		63	OT			
041603	WDBND S/C =3 (BAY4)	.41		63	OT			
041604	WDBND S/C =4 (BAY4)	.41		63	OT			
041701	WDBND S/C =1 (BAY5)	.41		64	OT			
041702	WDBND S/C =2 (BAY5)	.41		64	OT			

Figure 6.4-10. - Continued

050100	PWR DIST ASSY FWD	10.80	12	OW
050201	PWR DIST ASSY -1 MID	9.96	44	D1
050202	PWR DIST ASSY -2 MID	9.96	44	D2
050203	PWR DIST ASSY -3 MID	9.96	44	D3
050301	PCM MASTER UNIT -1	55.00	24	OW
050401	DSC FWD -1-SDF1	22.20	12	OW
050402	DSC FWD -2-SDF2	22.20	12	OW
050403	DSC FWD -3-SDF3	22.50	12	OW
050501	DSC UNIT #1 - SDL1	16.60	44	D1
050502	DSC UNIT #2 - SDL2	24.70	44	D1
050503	DSC UNIT #3 - SDL3	16.60	44	D1
050504	DSC UNIT #4 - SDL4	24.70	44	D1
050505	DSC UNIT #5 - SDL5	46.70	44	D1
050506	DSC UNIT #1 - SDR1	16.60	44	D2
050507	DSC UNIT #2 - SDR2	24.70	44	D2
050508	DSC UNIT #3 - SDR3	16.60	44	D2
050509	DSC UNIT #4 - SDR4	46.80	44	D2
050601	DSC UNIT #1 - SDC1	16.60	44	D3
050602	DSC UNIT #2 - SDC2	23.90	44	D3
050603	DSC UNIT #3 - SDC3	16.60	44	D3
050604	DSC UNIT #4 - SDC4	17.70	44	D3
050605	DSC UNIT #5 - SDC5	16.60	44	D3
050701	WB FDM 1A (FMF1)-FWD	13.51	50.00	12
050702	WB FDM 1B (FMF1)-FWD	13.51	50.00	12
050820	FREON FLOMTR-MID LT3	2.04	47	D3
050831	LOAD SEN ACCEL-1 FWD	3.78	12	OW
050832	LOAD SEN ACCEL-2 FWD	3.78	12	OW
050833	LOAD SEN ACCEL-MR 2	14.30	47	D2
050834	LOAD SEN ACCEL-MR 3	10.73	48	D2
050930	PCM RCOR-RECC-SERIAL	60.50	12	OW
051011	WBSC FWD (A131)-100%	3.03	12	OW
051332	WBSC LM3 (A145)-100%	2.86	47	D3
051333	WBSC LM3 (A145)-100%	3.27	48	D3
051501	SGSC FWD (A161)-100%	24.96	12	OW
051502	SGSC FWD (A161)-100%	17.72	12	OW
051611	SGSC HL1 (A162)-100%	94.82	47	D1
051621	SGSC HL1 (A163)-100%	66.92	47	D1
051624	SGSC HL1 (A163)-100%	7.87	48	D1
051625	SGSC HL1 (A163)-100%	31.47	47	D1
051631	SGSC MR2 (A164)-100%	117.09	48	D2
051632	SGSC MR2 (A164)-100%	23.60	48	D2
051641	SGSC MR2 (A165)-100%	105.96	48	D2
051642	SGSC MR2 (A165)-100%	39.34	48	D2
051651	SGSC MR2 (A169)-100%	72.54	48	D2
051654	SGSC MR2 (A169)-100%	31.47	48	D2
051661	SGSC PL3 (A167)-100%	78.06	48	D3
051671	SGSC PL3 (A167)-100%	61.31	48	D3
051673	SGSC PL3 (A167)-100%	23.60	48	D3
051700	MDM DF1 - FWD	53.90	12	OW
051801	MDM DL1 - MID LEFT 1	50.00	44	D1
051802	MDM DL2 - MID LEFT 1	50.20	44	D1
051803	MDM DR2 - MID RIGHT 2	50.00	44	D2
051804	MDM DP2 - MID RIGHT 2	52.80	44	D2
051805	MDM DC1 - MID LEFT 3	45.10	44	D3
051806	MDM DC2 - MID LEFT 3	52.50	44	D3
051900	S-BAND FM XMITR-DFI	129.65	12	OW
052200	APS DFI SIGNAL COND	8.10	215	OT

6.208

Figure 6.4-10. - Continued

052300	ATCS OFI SIGNAL COND	1.96		217	OT		1.50A
052401	OFI FREON PUMP #1	305.88		201	OT	234.00	
052500	3-AXIS ACCEL	1.84		12	OT		
060901	GRND CMDS INTFC UN A	29.20		33	W3		
061001	INV DIST+CTL ASY1-DC	.61		41	A1	2.10	
061002	INV DIST+CTL ASY1-AC	2.75		201	A1		
061003	INV DIST+CTL ASY2-DC	.61		42	A2		
061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10	
061005	INV DIST+CTL ASY3-DC	.61		43	A3		
061006	INV DIST+CTL ASY3-AC	2.75		203	A3		2.10
061701	CURR SENSOR-MIDBODY-1	3.53		7	OT		
061702	CURR SENSOR-MIDBODY-2	3.55		8	OT		
061703	CURR SENSOR-MIDBODY-3	3.55		9	OT		
061704	CURR SENSOR-PL-MN-B	1.14		64	OT		
061705	CURR SENSOR-PL-MN-C	1.14		65	OT		
061706	CURR SENSOR-LH ADP	1.11		22	OT		
061707	CURR SENSOR-LH ADP	1.11		23	OT		
061708	CURR SENSOR-RH ADP	1.11		23	OT		
061709	CURR SENSOR-RH ADP	1.11		7	FM		
061801	H202 CRYO ASY1A-QUES	12.26		9	FM		
061802	H202 CRYO ASY1B-QUES	12.32		9	FM		
061803	H202 CRYO ASY1A-H2CY	6.89		9	FM		
061804	H202 CRYO ASY1B-H2CY	12.32		9	FM		
061811	H202 CRYO ASY2A-QUES	12.32		9	FM		
061812	H202 CRYO ASY2B-QUES	12.32		9	FM		
061813	H202 CRYO ASY2A-H2CY	6.89		9	FM		
061814	H202 CRYO ASY2B-H2CY	6.89		9	FM		
062101	MTR CNTL ASSY FWD-1	4.07	15.00	22	W1		
062102	MTR CNTL ASSY FWD-2	3.77	12.50	23	W2		
062103	MTR CNTL ASSY FWD-3	5.14	18.90	24	W3		
062201	MTR CNTL ASSY MID-1	12.26	22.80	44	FM		
062202	MTR CNTL ASSY MID-2	12.70	13.50	45	FM		
062203	MTR CNTL ASSY MID-3	10.66	20.20	44	FM		
062204	MTR CNTL ASSY MID-4	12.55	13.20	45	FM		
062301	MTR CNTL ASSY AFT-1	9.30	20.00	63	F4		
062302	MTR CNTL ASSY AFT-2	8.77	20.70	64	F5		
062303	MTR CNTL ASSY AFT-3	15.81	30.60	65	F6		
062401	LOAD CNTL ASSY FWD1	24.55	28.00	32	W1		
062402	LOAD CNTL ASSY FWD2	26.81	30.61	33	W2		
062403	LOAD CNTL ASSY FWD3	26.42	30.18	34	W3		
062501	LOAD CNTL ASSY AFT1	73.62	25.61	84	F4		
062502	LOAD CNTL ASSY AFT2	74.03	27.47	85	F5		
062503	LOAD CNTL ASSY AFT3	81.30	34.81	86	F6		
062601	PCA FWD-1	98.55	30.03	22	W1		
062602	PCA FWD-2	41.52	12.65	23	W2		
062603	PCA FWD-3	45.73	13.93	24	W3		
062701	PCA MID-1	41.49	35.31	47	FM		
062702	PCA MID-2	49.30	41.96	48	FM		
062703	PCA MID-3	33.60	28.43	49	FM		
062801	PCA AFT-1	30.43	34.55	72	F4		
062802	PCA AFT-2	29.78	33.81	73	F5		
062803	PCA AFT-3	27.10	30.85	74	F6		
062804	PCA AFT-4	26.97	30.68	60	F5		
062805	PCA AFT-5	31.52	35.86	61	F5		
062806	PCA AFT-6	19.98	22.73	62	F6		
070101	GPC CPU#1-RUN	313.00		31	A1		
070102	GPC CPU#2-RUN	313.00		31	A2		

Figure 6.4-10. - Continued

070103	GPC CPU#3-RUN	308.00	*	31	A3
070104	GPC CPU#4-RUN	313.00	*	31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	313.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	340.00	*	31	A2
070301	MDM FF1	58.90		28	W1
070302	MDM FF2	60.80		29	W2
070303	MDM FF3	55.50		30	W3
070304	MDM FF4	58.60		29	W2
070401	MDM FA1	54.80		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6
070901	MM -1 TAPE OPER	20.12	*	22	W1
070902	MM -2 TAPE OPER	20.12	*	23	W2
071001	MDM OF1 1	46.80		19	W1
071002	MDM OF1 2	46.80		19	W2
071003	MDM OF1 3	47.40		21	W3
071004	MDM OF1 4 FLT-DECK	40.40		21	W3
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
075001	GPC CNTLR 1 PS A	7.17		31	A1
075002	GPC CNTLR 1 PS B	7.17		31	A1
075003	GPC CNTLR 2 PS A	7.17		31	A2
075004	GPC CNTLR 2 PS B	7.17		31	A2
075005	GPC CNTLR 3 PS A	7.17		31	A2
075006	GPC CNTLR 3 PS B	1.37		31	A2
203701	ENG 1 FASCOSS SYS A	23.77		63	OT
203702	ENG 1 FASCOSS SYS B	23.77		64	OT
203703	ENG 1 FASCOSS SYS C	23.77		65	OT
203704	ENG 2 FASCOSS SYS A	23.77		63	OT
203705	ENG 2 FASCOSS SYS B	23.77		64	OT
203706	ENG 2 FASCOSS SYS C	23.77		65	OT
203707	ENG 3 FASCOSS SYS A	23.77		63	OT
203708	ENG 3 FASCOSS SYS B	23.77		64	OT
203709	ENG 3 FASCOSS SYS C	23.77		65	OT
210701	LP ACT GMBL INST/LOG	7.34		72	OT
210702	LP SIB GMBL INST/LOG	7.34		73	OT
210703	RP ACT GMBL INST/LOG	7.32		74	OT
210704	RP SIB GMBL INST/LOG	7.34		72	OT
211501	RIPROP VL1 LP POS ID	1.47		72	OT
211502	RIPROP VL1 LP POS ID	1.47		73	OT
211503	RIPROP VL1 RP POS ID	1.47		72	OT
211504	RIPROP VL2 RP POS ID	1.46		74	OT
212106	TK ISO/XFG VL TLK6CK	.31		72	AC
212401	QUAN GAGE TCT LP-CPR	9.56	*	78	OT
212402	QUAN GAGE TCT RP-OPR	9.57	*	80	OT
215101	GSE SR PH HT A-43-LP	9.77		72	OT
215102	ENG SR PH HT A-37-LP	10.71		72	OT
215103	OMF COVER HT A-33-LP	17.91		35.23	OT
215104	Y-WB OTBD HT A-27-LP	26.86		24.96	72 OT

Figure 6.4-10. - Continued

215105	Y-WB INBD HT A-33-LP	23.03	21.40	72	OT
215106	Y-WB UPR HT A-31-LP	6.06	5.63	72	OT
215107	CT LN WB HT A1-21-LP	71.84	35.53	72	OT
215108	CT LN WB HT A2-21-LP	75.64	35.53	72	OT
215109	CT LN WB HT A3-21-LP	37.80	35.53	72	OT
215110	CT LN WB HT A4-21-LP	77.53	35.53	72	OT
215111	RCS HSNG HT A1-41-LP	22.71	19.20	72	OT
215112	RCS HSNG HT A2-41-LP	19.60	19.20	72	OT
215113	RCS HSNG HT A3-41-LP	9.77	22.71	73	OT
215114	RCS HSNG HT A4-41-LP	10.71	16.61	73	OT
215115	ENG COVER HT A-54-RP	37.91	35.23	73	OT
215116	Y-WB OTBD HT A-28-RP	26.86	24.96	73	OT
215117	Y-WB INBD HT A-34-RP	23.03	21.40	73	OT
215118	Y-WB UPR HT A-32-RP	6.06	5.63	73	OT
215119	CT LN WB HT A1-22-RP	71.84	35.53	73	OT
215120	CT LN WB HT A2-22-RP	75.64	35.53	73	OT
215121	CT LN WB HT A3-22-RP	37.80	35.53	73	OT
215122	CT LN WB HT A4-22-RP	77.53	35.53	73	OT
215123	RCS HSNG HT A1-42-RP	22.71	19.20	73	OT
215124	RCS HSNG HT A2-42-RP	19.60	19.20	73	OT
217001	XFD OX/FU FLXL HTA-L	10.70	30.13	72	OT
217003	XFD OX/FU FLXL HTA-R	10.70	30.13	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217103	XFD OX/FU LNE HT-A-R	7.44	12.02	72	OT
217105	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HPT BLDLN HT-A-H	6.74	27.75	72	OT
217301	OX HPT BLDLN HT-A-A	4.65	30.80	72	OT
217303	OX HPT BLDLN HT-A-H	6.98	28.71	72	OT
217401	LOPT OX/FU ORLN HTA-L	1.40	17.66	72	OT
217403	LOPT OX/FU ORLN HTA-R	1.40	17.66	72	OT
220101	FWD THRUSTER F1F1-XJ	.11	.15	22	OT
220105	FWD THRUSTER F2F1-XJ	.11	.15	23	OT
220109	FWD THRUSTER F3F1-XJ	.11	.15	24	OT
220111	FWD THRUSTER F3L1-YJ	.11	.15	24	OT
220201	AFT THRUSTER R1R1-YJ	.14	.20	78	OT
220204	AFT THRUSTER R2R1-YJ	.14	.20	80	OT
220207	AFT THRUSTER R3R1-YJ	.14	.20	79	OT
220214	AFT THRUSTER L1L1-YJ	.14	.20	78	OT
220217	AFT THRUSTER L2L1-YJ	.14	.20	80	OT
220221	AFT THRUSTER L3L1-YJ	.14	.20	79	OT
225101	FWD RCS HT-ENG F1F-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT
225105	FWD RCS HT-ENG F2F-X	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.01	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3F-X	3.84	17.85	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.42	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.91	8	OT
225114	FWD RCS HT-ENG F4R-Y	1.50	7.33	9	OT
225115	FWD RCS HT-ENG F4D-Z	1.92	8.91	9	OT
225201	AFT RCS HT-ENG R1R-Y	.72	3.35	85	OT
225202	AFT RCS HT-ENG R2R-Y	.72	3.35	84	OT

Figure 6.4-10. - Continued

225203	AFT RCS	HT-ENG	R38-Y	.72	3.35	86	OT
225204	AFT RCS	HT-ENG	R48-Y	.72	3.35	86	OT
225205	AFT RCS	HT-ENG	R20-Z	.63	2.92	84	OT
225206	AFT RCS	HT-ENG	R30-Z	.63	2.92	86	OT
225207	AFT RCS	HT-ENG	R40-Z	.63	2.92	86	OT
225208	AFT RCS	HT-ENG	R1U+Z	1.07	4.98	85	OT
225209	AFT RCS	HT-ENG	R2U+Z	1.07	4.98	84	OT
225210	AFT RCS	HT-ENG	R4U+Z	1.07	4.98	86	OT
225211	AFT RCS	HT-ENG	R1A+X	1.07	3.31	85	OT
225212	AFT RCS	HT-ENG	R3A+X	2.37	7.34	86	OT
225213	AFT RCS	HT-ENG	R3A+X	.72	3.35	85	OT
225301	AFT RCS	HT-ENG	L1L+Y	.72	3.35	84	OT
225302	AFT RCS	HT-ENG	L2L+Y	.72	3.35	86	OT
225303	AFT RCS	HT-ENG	L3L+Y	.72	3.35	86	OT
225304	AFT RCS	HT-ENG	L4L+Y	.72	3.35	86	OT
225305	AFT RCS	HT-ENG	L20-Z	.63	2.92	84	OT
225306	AFT RCS	HT-ENG	L30-Z	.63	2.92	86	OT
225307	AFT RCS	HT-ENG	L40-Z	.63	2.92	86	OT
225308	AFT RCS	HT-ENG	L1U+Z	1.07	4.98	85	OT
225309	AFT RCS	HT-ENG	L2U+Z	1.07	4.98	84	OT
225310	AFT RCS	HT-ENG	L4U+Z	1.07	4.98	86	OT
225311	AFT RCS	HT-ENG	L1A+X	1.07	3.31	85	OT
225312	AFT RCS	HT-ENG	L3A+X	2.37	7.34	86	OT
225313	AFT RCS	HT-ENG	L3A+X	1.21	11.16	9	OT
225401	FWD VRN	HT-ENG	F5R	1.06	9.77	9	OT
225402	FWD VRN	HT-ENG	F5L	.84	7.75	86	OT
225501	AFT VRN	HT-ENG	R5D-Z	3.95	36.60	86	OT
225502	AFT VRN	HT-ENG	R5R-Y	.84	7.75	86	OT
225503	AFT VRN	HT-ENG	L5D-Z	3.95	36.60	86	OT
225504	AFT VRN	HT-ENG	L5L+Y	.63		47	OT
300201	FCP	1 O2 FLOWMETER		6.44		48	OT
300202	FCP	2 O2 FLOWMETER		6.48		49	OT
300203	FCP	3 O2 FLOWMETER		6.33		47	OT
300301	FCP	1 H2 FLOWMETER		6.44		48	OT
300302	FCP	2 H2 FLOWMETER		6.48		49	OT
300303	FCP	3 H2 FLOWMETER		5.09		38	OT
300401	FCP1	EL CTL-ORBT		5.08		39	OT
300402	FCP2	EL CTL-ORBT		5.00		40	OT
300403	FCP3	EL CTL-ORBT		235.95		201	OT
300501	FCP1	PHF+H2O SENSOR		235.34		202	OT
300502	FCP2	PHF+H2O SENSOR		239.87		203	OT
300503	FCP3	PHF+H2O SENSOR		.44	5.00	47	OT
305301	H2O VENT	LN HTR A		.17	5.08	47	OT
305401	FCP1	H2O RLF VL HT A		.17	5.08	47	OT
305403	FCP2	H2O RLF VL HT A		.17	5.08	47	OT
305405	FCP3	H2O RLF VL HT A		2.84	49.83	49	OT
305602	H2O NO2 BARREL	HTR BB		23.99	49.98	49	OT
310301	H2O NO2 ORIFICE	HT B		2.33		42	OT
310302	O2 TNK1	SIG COND QTY		2.33		42	OT
310303	H2 TNK1	SIG COND QTY		2.33		41	OT
310304	O2 TNK2	SIG COND QTY		2.53		41	OT
311301	H2 TNK2	SIG COND QTY		96.50		7	OT
311501	H2 TANK 1	HEATER A		97.20		9	OT
311502	H2 TANK 1	HEATER B		98.80		9	OT
311503	H2 TANK 2	HEATER A		99.30		8	OT
311504	H2 TANK 2	HEATER B		7.05		66	F4
320301	APU1	CHTLR-OPERATE		7.05	*	67	F5
320302	APU2	CHTLR-OPERATE		7.05	*	68	F6
320303	APU3	CHTLR-OPERATE		7.05	*		

Figure 6.4-10. - Continued

325201	FUEL FEEDLINE HTR 1A	12.95	19.13	84	01			
325203	FUEL FEEDLINE HTR 2A	15.68	19.32	85	01			
325205	FUEL FEEDLINE HTR 3A	10.47	21.94	86	01			
325301	FUEL SERVLINE HTR 1A	12.33	19.11	84	01			
325303	FUEL SERVLINE HTR 2A	9.05	18.97	85	01			
325305	FUEL SERVLINE HTR 3A	11.16	17.31	86	01			
325401	FUEL DRN LINE HTR 1A	7.79	18.96	84	01			
325403	FUEL DRN LINE HTR 2A	10.12	18.98	85	01			
325405	FUEL DRN LINE HTR 3A	5.58	17.07	86	01			
325601	TURB GAS GEN HTR 1A	32.79	57.73	84	01			
325603	TURB GAS GEN HTR 2A	32.79	57.73	85	01			
325605	TURB GAS GEN HTR 3A	32.79	57.73	86	01			
325701	OIL LINE HTR 1A	10.95	15.94	84	01			
325703	OIL LINE HTR 2A	11.37	16.02	85	01			
325705	OIL LINE HTR 3A	11.63	16.38	86	01			
325801	APU 1 PRI H2O HTR 1A	8.90	35.00	75	01			
325803	APU 2 PRI H2O HTR 1A	2.87	35.00	76	01			
325805	APU 3 PRI H2O HTR 1A	6.38	35.00	77	01			
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	01			
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	01			
325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	01			
326301	GG H2O TK LN HT 504A	4.37	15.00	75	01			
326303	GG H2O TK LN HT 503A	7.94	15.00	77	01			
400101	CABIN FAN A	645.75		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	1.80A
400600	ARS HUM SEP SIG CND	2.35		217	AC			
400701	PPO2 CNTLR-SYS 1	7.75		16	AC			
400702	PPO2 CNTLR-SYS 2	7.76		17	AC			
400711	O2 CONTROL VLV-SYS 1	5.07	50.00	16	AC			
400731	CABIN PRESS SENSOR	2.75		16	AC			
400732	CAB PRES-DECAY-SENSOR	2.16		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.08		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.08		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.08		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.08		17	AC			
400761	PPO2 SENSOR-SYS 1	.86		16	AC			
400762	PPO2 SENSOR-SYS 2	.86		17	AC			
400763	PPO2 SENSOR-SYS 3	.86		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.61		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC			2.40B
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	7.01		16	OT			
401002	SMOKE DT SNR-R FLT D	7.01		16	OT			
401003	S D SNR A - BAY 1	7.02		18	OT			
401004	S D SNR B - BAY 1	7.02		17	OT			
401005	S D SNR A - BAY 2	7.01		16	OT			
401006	S D SNR B - BAY 2	7.02		18	OT			
401007	S D SNR A - BAY 3	7.02		17	OT			
401008	S D SNR B - BAY 3	7.01		16	OT			
401009	S D SNR - CABIN	7.02		18	OT			
401102	IMU FAN B	63.53		202	MC		48.60	

Figure 6.4-10. - Continued

401200	IMU FAN SIG COND	2.35		218	AC			1.808
401301	H2O PUMP - LOOP 2	250.72		203	MC			191.80
401501	H2O BYPASS CN SC-PRI	7.71		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.71		211	AC			
402901	FREON PHP LP 1-A ASC	475.82	*	201	FP	5.90A		
402903	FREON PHP LP 2-A ASC	475.82	*	203	FP	374.00		374.00
403001	RAD FLOW CNTRL A-LP1	2.16		17	OT			
403002	RD FL CTR A-LP1 FALT	1.62		17	OT			
403004	RD FL CTR B-LP1 FALT	1.62		16	OT			
403101	RAD FLOW CNTRL A-LP2	2.16		17	OT			
403102	RD FL CTR A-LP2 FALT	1.62		17	OT			
403104	RD FL CTR B-LP2 FALT	1.62		16	OT			
403201	RAD FL CNIL VLV-LP 1	6.04		17	OT			
403202	RAD FL CNIL VLV-LP 2	6.04		17	OT			
403601	FREON COOL LP1 INSTR	6.54		215	OT	5.008		5.008
403602	FREON COOL LP2 INSTR	6.54		218	OT			
403701	FES CONTROLLER PRI A	7.38		86	OT			
403901	FES TOP G PLSR V-PRI	8.22		89	OT			
403921	TPNG V HLDNG COIL-PR	3.11	27.00	89	OT			
406000	VACUUM VNT NOZ HTR	11.40	80.00	5	OT			
408101	PRI FWTR LN HTA-TS5	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS6	1.02	14.26	84	OT			
408105	PRI FWTR LN HTA-TS7	7.75	15.16	47	OT			
408107	PRI FWTR LN HTA-TS5	7.79	6.52	84	OT			
408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408203	SEC FWTR LN HTA-TS12	2.87	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	9.43	18.46	49	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	86	OT			
409001	TOP G DUCT HTR1 SEC1	46.53	12.28	47	OT			
409101	TOP G DUCT HTR1 SEC2	116.26	24.81	47	OT			
409201	TOP G DUCT HTR1 SEC3	26.30	41.88	84	OT			
409301	TOP G DUCT HTR1 SEC4	26.30	40.59	84	OT			
409401	SONIC LFT NOZ HTR 1A	11.25	45.02	84	OT			
409501	SONIC RHT NOZ HTR 2A	11.12	45.02	85	OT			
500801	RESVOIR -1 VOL SNSR	1.83		212	OT	1.408		
500802	RESVOIR -2 VOL SNSR	1.83		215	OT		1.408	
500803	RESVOIR -3 VOL SNSR	1.83		218	OT			1.408
503701	H2O BLR1 CNT LOGIC A	4.71		217	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79		214	OT		2.90A	
503801	H2O BOILP 1 CNIL A	.83		65	OT			
503803	H2O BOILP 2 CNIL A	.72		63	OT			
503605	H2O BOILP 3 CNIL A	.83		64	OT			
505301	WSB TK/BOILER HTR 1A	6.05	3.81	65	OT			
505303	WSB TK/BOILER HTR 2A	8.38	5.42	63	OT			
505305	WSB TK/BOILER HTR 3A	7.67	4.83	64	OT			
				TOTAL INVERTER WATTS	=	1674.30	1061.90	1696.11
				TOTAL 3 PHASE WATTS	=	958.60	591.00	1245.40
				TOTAL A PHASE WATTS	=	250.60	155.80	12.60
				TOTAL B PHASE WATTS	=	201.40	175.60	68.40
				TOTAL C PHASE WATTS	=	3.00	.00	.00

Figure 6.4-10. - Concluded

693

TOTAL WATTS - 16666.54

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 031:45:00.0

Figure 6.4-11.- Vehicle configuration at 1 day 8 hours 30 minutes

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 032:30:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-11. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
C10101	IMU =1 OPERATE	120.45			28	WC			
C10102	IMU =2 OPERATE	120.45	*		29	WC			
C10103	IMU =3 OPERATE	120.45	*		30	WC			
C10302	STAR TRACKER -Y AXIS	16.65			17	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
020802	NTWK SIG PROCESSOR 2	29.68			34	W3			
021101	S-RAND FM XMITR =1	11.02		15.00	33	W3			
021200	S-RND FM SIG PRO-ORB	.79		15.00	36	A3			
021302	S-RND XPNDR=2-DIRECT	61.78	*		34	W3			
021600	S-RND ANT SW ASY-QES	.58	*		33	A3			
024101	AUDIO CENTER L	40.48			42	W1			
024201	AUDIO TERM UN-PLT RT	3.54			42	AC			
024202	AUDIO TERM UN-CDR LT	3.55			41	AC			
024203	AUDIO TERM UNIT-HSS	3.63			10	AC			
024204	AUDIO TERM UNIT-RS	3.80			15	AC			
024701	SPKR MIKE UNIT -OS	1.83		80.00	10	AC			
024702	SPKR MIKE UNIT-MID OK	1.84		80.00	11	AC			
024901	HDSET INTF UNIT-PLT	.71			42	AC			
024902	HDSET INTF UNIT-CMDR	.71			41	AC			
024910	MULTIPLE HDSET ADPTR	.71			41	AC			
028101	TV CAM HTR-FWD PLB	7.96		40.00	11	OT			
028102	TV CAM HTR-AFT PLB	7.96		40.00	10	OT			
028105	TV CAM HTR-KEEL BAY	7.96		40.00	15	OT			
028201	PAN TLT HTR-FWD BAY	3.28		40.00	11	OT			
028202	PAN TLT HTR-AFT BAY	3.28		40.00	10	OT			
028203	PAN TLT HTR-KEEL BAY	3.28		40.00	15	OT			
030101	ADI =1 FWD LH	18.31			19	AC			
030102	ADI =2 FWD RH	18.32			20	AC			
030103	ADI =3 AFT	18.33			21	AC			
031400	OHS/RCS PROP QTY IND	4.91			18	AC			
031501	C+W PWR SUP A-STBY	21.68			41	A3			
031502	C+W PWR SUP B-STBY	13.76			42	A3			
031701	MISSION TIMER =1 FWD	3.77			16	AC			
031702	MISSION TIMER =2 AFT	3.88			17	AC			
031801	EVENT TIMER =1 FWD	3.24			16	AC			
031802	EVENT TIMER =2 AFT	3.23			17	AC			
032201	DDU =1 FWD LH	120.00			19	HX			
032202	DDU =2 FWD RH	120.00			20	HX			
032203	DDU =3 AFT	120.00			21	HX			
032701	CRT DU =1 - LF	90.26			23	HX			
032702	CRT DU =2 - RF	90.26			24	HX			
032703	CRT DU =3 - CF	90.27			23	HX			
032801	DEU =1	202.00			22	HX			
032802	DEU =2	202.00			23	HX			
032803	DEU =3	202.00			24	HX			
033101	PANEL LTS - LEFT/CTR	170.78		67.00	211	AC	195.00A		

Figure 6.4-11. - Continued

033102	PANEL LTS - LFT/OVHD	155.02	67.00	212	AC	177.008		
033103	PANEL LIGHTS - RIGHT	116.48	67.00	215	AC		133.008	
033107	PANEL LTS - RHT/OVHD	115.61	67.00	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	50.62	67.00	218	AC			57.808
033202	INSTR LTS - OVERHEAD	24.08	67.00	215	AC		27.508	
033203	INSTR LTS - RIGHT	64.97		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.508		
033501	MID DK FLDLT 1	1.71	10.00	4	AC			
033502	MID DK FLDLT 2	1.72	10.00	5	AC			
033503	MID DK FLDLT 3	1.72	10.00	6	AC			
033504	MID DK FLDLT 4	1.72	10.00	6	AC			
033506	MID DK FLDLT 6	1.72	*	5	AC			
033507	MID DK FLDLT 7	1.72	*	6	AC			
033508	MID DK FLDLT 8	1.71	*	4	AC			
033701	MID DECK PANEL LT =1	6.86		6	AC			
033702	MID DECK PANEL LT =2	6.83		4	AC			
034202	GLARSHLD FLDLT-LEFT	8.36	*	41	AC			
034203	GLARSHLD FLDLT-RGHT	8.35	*	42	AC			
035600	C+W ANNUN ASSY-OPR	8.10	*	41	AC			
037200	CICU - OPER	7.08	*	43	A1			
037301	ACA =1	13.91	13.80	16	AC			
037302	ACA =2/3	27.98	13.70	17	AC			
037303	ACA =4/5	25.03	15.60	18	AC			
037401	ANNUN 1	2.99	6.70	16	AC			
037402	ANNUN 2/3	5.57	6.70	17	AC			
037403	ANNUN 4/5	4.66	6.70	18	AC			
040301	PCM MASTER UNIT =1	55.00		30	W1			
040401	OPS-1 RECORDER-REPLY	16.65	*	28	W2			
040402	OPS-2 RECORDER-REPLY	54.83	*	29	W2			
040403	PAYLD RECORDER-REPLY	5.48	*	30	W1			
040501	DED SIG CND OF1- FWD	22.80		19	W1			
040502	DED SIG CND OF2- FWD	32.60		20	W2			
040503	DED SIG CND OF3- FWD	26.80		20	W3			
040601	DED SIG CND OA1- AFT	36.20		66	F4			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPER	31.24		43	W4			
041101	DSC OL1 OMS/RCS	23.30		78	OT			
041202	DSC OL2 OMS/RCS	21.40		80	OT			
041203	DSC OR1 OMS/RCS	23.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	22.10		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WDBND S/C =1 (BAY4)	.41		63	OT			
041602	WDBND S/C =2 (BAY4)	.41		63	OT			
041603	WDBND S/C =3 (BAY4)	.41		63	OT			
041604	WDBND S/C =4 (BAY4)	.41		63	OT			
041701	WDBND S/C =1 (BAY5)	.41		64	OT			
041702	WDBND S/C =2 (BAY5)	.41		64	OT			
050100	PWR DIST ASSY FWD	10.80		12	DW			
050201	PWR DIST ASSY =1 MID	9.96		44	D1			
050202	PWR DIST ASSY =2 MID	9.96		44	D2			
050203	PWR DIST ASSY =3 MID	9.96		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FWD =1-SDF1	22.20		12	DW			
050402	DSC FWD =2-SDF2	22.20		12	DW			

Figure 6.4-11. - Continued

050403	DSC FWD -3-SDF3	22.50	12	DW
050501	DSC UNIT #1 - SCL1	16.60	44	D1
050502	DSC UNIT #2 - SCL2	24.70	44	D1
050503	DSC UNIT #3 - SCL3	16.60	44	D1
050504	DSC UNIT #4 - SCL4	24.70	44	D1
050505	DSC UNIT #5 - SCL5	46.70	44	D1
050506	DSC UNIT #1 - SDR1	16.60	44	D2
050507	DSC UNIT #2 - SDR2	24.70	44	D2
050508	DSC UNIT #3 - SDR3	16.60	44	D2
050509	DSC UNIT #4 - SDR4	46.80	44	D2
050601	DSC UNIT #1 - SDC1	16.60	44	D3
050602	DSC UNIT #2 - SDC2	23.90	44	D3
050603	DSC UNIT #3 - SDC3	16.60	44	D3
050604	DSC UNIT #4 - SDC4	17.70	44	D3
050605	DSC UNIT #5 - SDC5	16.60	44	D3
050701	WB FDM 1A (FMF1)-FWD	13.50	12	DW
050702	WB FDM 1B (FMF1)-FWD	13.50	12	DW
050820	FREON FLOWTR-MID LTR	2.04	47	D3
050831	LOAD SEN ACCEL-1 FWD	3.78	12	DW
050832	LOAD SEN ACCEL-2 FWD	3.78	12	DW
050833	LOAD SEN ACCEL-MR 2	14.29	47	D2
050834	LOAD SEN ACCEL-MR 3	10.72	48	D2
050930	PCH RCOR-REC0-SERIAL	60.48	12	DW
051011	WSSC FWD (A131)-100%	3.02	12	DW
051332	WSSC ML3 (A145)-100%	2.86	47	D3
051333	WSSC ML3 (A145)-100%	3.27	48	D3
051501	SGSC FWD (A161)-100%	24.95	12	DW
051502	SGSC FWD (A161)-100%	17.71	12	DW
051611	SGSC ML1 (A162)-100%	94.73	47	D1
051621	SGSC ML1 (A163)-100%	66.86	47	D1
051624	SGSC ML1 (A163)-100%	7.86	48	D1
051625	SGSC ML1 (A163)-100%	31.44	47	D1
051631	SGSC MR2 (A164)-100%	117.02	48	D2
051632	SGSC MR2 (A164)-100%	23.59	48	D2
051641	SGSC MR2 (A165)-100%	105.89	48	D2
051642	SGSC MR2 (A165)-100%	39.31	48	D2
051651	SGSC MR2 (A169)-100%	72.50	48	D2
051654	SGSC MR2 (A169)-100%	31.45	48	D2
051661	SGSC ML3 (A166)-100%	78.01	48	D3
051671	SGSC ML3 (A167)-100%	61.27	48	D3
051673	SGSC ML3 (A167)-100%	23.59	48	D3
051703	MDM DF1 - FWD	53.90	12	DW
051801	MDM DL1 - MID LEFT 1	50.00	44	D1
051802	MDM DL2 - MID LEFT 1	50.20	44	D1
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2
051804	MDM DR2 - MID RIGHT 2	52.80	44	D2
051805	MDM DC1 - MID LEFT 3	49.10	44	D3
051806	MDM DC2 - MID LEFT 3	52.50	44	D3
051900	S-BAND FM XMITR-DFI	129.60	12	DW
052200	ARS DFI SIGNAL COND	8.10	215	OT
052300	ATCS DFI SIGNAL COND	1.96	217	OT
052401	DFI FREON PUMP #1	305.88	201	D1
052500	3-AXIS ACCEL	17.84	12	OT
060901	GRND CHDS INTEC UN A	29.12	33	H3
061001	INV DIST+CTL ASY1-DC	.61	41	A1
061002	INV DIST+CTL ASY1-AC	2.75	201	A1
061003	INV DIST+CTL ASY2-DC	.61	42	A2

Figure 6.4-11. - Continued

061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10
061005	INV DIST+CTL ASY3-AC	2.75		203	A3	2.10
061006	INV DIST+CTL ASY3-AC	2.75		203	A3	2.10
061701	CURR SENSOR-H10BDY=1	3.52		7	OT	
061702	CURR SENSOR-H10BDY=2	3.54		8	OT	
061703	CURR SENSOR-H10BDY=3	3.54		9	OT	
061704	CURR SENSOR-PL MN B	1.14		64	OT	
061705	CURR SENSOR-PL MN C	1.14		65	OT	
061706	CURR SENSOR-LH ADP	1.10		22	OT	
061707	CURR SENSOR-LH ADP	1.10		23	OT	
061708	CURR SENSOR-RH ADP	1.10		23	OT	
061709	CURR SENSOR-RH ADP	1.10		23	OT	
061801	H202 CRYO ASY1A-QUEFS	12.23		7	FM	
061802	H202 CRYO ASY1B-QUEFS	12.28		9	FM	
061811	H202 CRYO ASY2A-QUEFS	12.29		8	FM	
061812	H202 CRYO ASY2B-QUEFS	12.28		9	FM	
062101	MTR CNTL ASSY FWD =1	4.06	15.00	22	W1	
062102	MTR CNTL ASSY FWD =2	3.76	12.50	23	W2	
062103	MTR CNTL ASSY FWD =3	5.12	18.90	24	W3	
062201	MTR CNTL ASSY MID =1	12.26	22.80	44	FM	
062202	MTR CNTL ASSY MID =2	12.70	13.50	45	FM	
062203	MTR CNTL ASSY MID =3	10.66	20.20	44	FM	
062204	MTR CNTL ASSY MID =4	12.55	13.20	45	FM	
062301	MTR CNTL ASSY AFT =1	9.30	20.00	63	F4	
062302	MTR CNTL ASSY AFT =2	8.76	20.70	64	F5	
062303	MTR CNTL ASSY AFT =3	15.80	30.60	65	F6	
062401	LOAD CNTL ASSY FWD1	24.48	28.00	32	W1	
062402	LOAD CNTL ASSY FWD2	26.74	30.61	33	W2	
062403	LOAD CNTL ASSY FWD3	26.34	30.18	34	W3	
062501	LOAD CNTL ASSY AFT1	73.57	25.61	84	F4	
062502	LOAD CNTL ASSY AFT2	73.98	27.47	85	F5	
062503	LOAD CNTL ASSY AFT3	81.25	34.81	86	F6	
062601	PCA FWD =1	98.24	30.03	22	W1	
062602	PCA FWD =2	41.38	12.65	23	W2	
062603	PCA FWD =3	45.58	13.93	24	W3	
062701	PCA MID =1	41.45	35.31	47	FM	
062702	PCA MID =2	49.27	41.96	48	FM	
062703	PCA MID =3	33.59	28.43	49	FM	
062801	PCA AFT =1	30.40	34.55	72	F4	
062802	PCA AFT =2	27.76	33.81	73	F5	
062803	PCA AFT =3	27.08	30.85	74	F6	
062804	PCA AFT =4	26.95	30.68	60	F4	
062805	PCA AFT =5	31.49	35.86	61	F5	
062806	PCA AFT =6	19.96	22.73	62	F6	
070101	GPC CPU#1-RUN	313.00		31	A1	
070102	GPC CPU#2-RUN	313.00		31	A2	
070103	GPC CPU#3-RUN	308.00	*	31	A3	
070104	GPC CPU#4-RUN	313.00	*	31	A1	
070105	GPC CPU#5-RUN	308.00	*	31	A2	
070201	GPC IOP#1-RUN	346.00		31	A1	
070202	GPC IOP#2-RUN	340.00		31	A2	
070203	GPC IOP#3-RUN	313.00	*	31	A3	
070204	GPC IOP#4-RUN	340.00		31	A1	
070205	GPC IOP#5-RUN	313.00	*	31	A2	
070301	MDM FF1	58.90		28	W1	
070302	MDM FF2	60.00		29	W2	
070303	MDM FF3	55.50		30	W3	

Figure 6.4-11. - Continued

070304	MDM FF4	58.60		29	W2	
070401	MDM FA1	54.80		66	F4	
070402	MDM FA2	54.20		67	F5	
070403	MDM FA3	55.60		68	F6	
070404	MDM FA4	56.20		68	F6	
070901	MM =1 TAPE OPER	20.06		22	W1	
070902	MM =2 TAPE OPER	20.06	*	23	W2	
071001	MDM OFI 1	46.80		19	W1	
071002	MDM OFI 2	46.80		19	W2	
071003	MDM OFI 3	47.40		21	W3	
071004	MDM OFI 4 FLT DECK	40.40		21	WC	
071101	MDM OAI 1	41.30		66	F4	
071102	MDM OAI 2	42.10		67	F5	
071103	MDM OAI 3	42.70		68	F6	
071401	MDM PL 1	54.40		28	W1	
071402	MDM PL 2	56.90		29	W2	
075001	GPC CNTLR 1 PS A	7.15		31	A1	
075002	GPC CNTLR 1 PS B	7.15		31	A1	
075003	GPC CNTLR 2 PS A	7.15		31	A2	
075004	GPC CNTLR 2 PS B	7.15		31	A2	
075005	GPC CNTLR 3 PS A	7.15		31	A2	
075006	GPC CNTLR 3 PS B	1.37		31	A2	
203701	ENG 1 FASCOS SYS A	23.75		63	OT	
203702	ENG 1 FASCOS SYS B	23.75		64	OT	
203703	ENG 1 FASCOS SYS C	23.75		65	OT	
203704	ENG 2 FASCOS SYS A	23.75		63	OT	
203705	ENG 2 FASCOS SYS B	23.75		64	OT	
203706	ENG 2 FASCOS SYS C	23.75		65	OT	
203707	ENG 3 FASCOS SYS A	23.75		63	OT	
203708	ENG 3 FASCOS SYS B	23.75		64	OT	
203709	ENG 3 FASCOS SYS C	23.75		65	OT	
210701	LP ACT GMBL INST/LOG	7.33		72	OT	
210702	LP STB GMBL INST/LOG	7.33		73	OT	
210703	RP ACT GMBL INST/LOG	7.32		74	OT	
210704	RP STB GMBL INST/LOG	7.33		72	OT	
211501	BIPROP VL1 LP POS ID	1.47		72	OT	
211502	BIPROP VL2 LP POS ID	1.47		73	OT	
211503	BIPROP VL1 RP POS ID	1.47		72	OT	
211504	BIPROP VL2 RP POS ID	1.46		74	OT	
212106	TK ISO/XFD VL TLKBCK	1.31		72	AC	
212401	QUAN GAGE TOT-LP-OPR	9.55	*	78	OT	
212402	QUAN GAGE TOT-RP-OPR	9.56	*	80	OT	
215101	GSE SR PN HT A-43-LP	9.77		22.71	72	OT
215102	ENG SR PN HT A-37-LP	10.71		16.61	72	OT
215103	OME COVER HT A-53-LP	37.91		35.23	72	OT
215104	Y-WB OTBD HT A-27-LP	26.86		24.06	72	OT
215105	Y-WB JNBD HT A-33-LP	23.03		21.40	72	OT
215106	Y-WB UPR HT A-31-LP	6.06		5.63	72	OT
215107	CT LN WB HT A1-21-LP	71.84		35.53	72	OT
215108	CT LN WB HT A2-21-LP	75.64		35.53	72	OT
215109	CT LN WB HT A3-21-LP	37.80		35.53	72	OT
215111	CT LN WB HT A4-21-LP	77.53		35.53	72	OT
215112	RCS HSHG HT A1-41-LP	22.71		19.20	72	OT
215113	RCS HSHG HT A2-41-LP	19.60		19.20	72	OT
215301	GSE SR PN HT A-44-RP	9.77		22.71	73	OT
215302	ENG SR PN HT A-38-RP	10.71		16.61	73	OT
215303	OME COVER HT A-54-RP	37.91		35.23	73	OT

Figure 6.4-11. - Continued

215304	Y-WB OTBD HT A-28-RP	26.86	24.96	73	OT
215305	Y-WB INBD HT A-34-RP	23.03	21.40	73	OT
215306	Y-WB UPR HT A-32-RP	6.06	5.63	73	OT
215307	CT LN WB HT A1-22-RP	71.84	35.53	73	OT
215308	CT LN WB HT A2-22-RP	75.64	35.53	73	OT
215309	CT LN WB HT A3-22-RP	37.80	35.53	73	OT
215311	CT LN WB HT A4-22-RP	77.53	35.53	73	OT
215312	RCS HSNG HT A1-42-RP	22.71	19.20	73	OT
215313	RCS HSNG HT A2-42-RP	19.60	19.20	73	OT
217001	XFD OX/FU FLXL HTA-L	10.70	10.13	72	OT
217003	XFD OX/FU FLXL HTA-R	10.70	10.13	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217103	XFD OX/FU LNE HT-A-R	7.44	12.02	72	OT
217105	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HIPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HIPT BLDLN HT-A-M	6.74	27.75	72	OT
217301	OX HIPT BLDLN HT-A-A	4.65	30.80	72	OT
217303	OX HIPT BLDLN HT-A-M	6.98	28.71	72	OT
217401	LOPT OXFU DRLN HTA-L	1.40	17.66	72	OT
217403	LOPT OXFU DRLN HTA-R	1.40	17.66	72	OT
220101	FWD THRUSTER F1F(-X)	.11	.15	22	OT
220105	FWD THRUSTER F2F(-X)	.11	.15	23	OT
220109	FWD THRUSTER F3F(-X)	.11	.15	24	OT
220111	FWD THRUSTER F3L(+Y)	.11	.15	24	OT
220201	AFT THRUSTER R1R(-Y)	.14	.20	78	OT
220204	AFT THRUSTER R2R(-Y)	.14	.20	80	OT
220207	AFT THRUSTER R3R(-Y)	.14	.20	79	OT
220214	AFT THRUSTER L1L(+Y)	.14	.20	78	OT
220217	AFT THRUSTER L2L(+Y)	.14	.20	80	OT
220221	AFT THRUSTER L3L(+Y)	.14	.20	79	OT
225101	FWD RCS HT-ENG F1F-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT
225105	FWD RCS HT-ENG F2F-X	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.01	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3F-X	3.84	17.85	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.42	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.91	8	OT
225114	FWD RCS HT-ENG F4R-Y	1.58	7.33	9	OT
225115	FWD RCS HT-ENG F4D-Z	1.92	8.91	9	OT
225201	AFT RCS HT-ENG R1R-Y	.72	3.35	85	OT
225202	AFT RCS HT-ENG R2R-Y	.72	3.35	84	OT
225203	AFT RCS HT-ENG R3R-Y	.72	3.35	86	OT
225204	AFT RCS HT-ENG R4R-Y	.72	3.35	86	OT
225205	AFT RCS HT-ENG R2D-Z	.63	2.92	84	OT
225206	AFT RCS HT-ENG R3D-Z	.63	2.92	84	OT
225207	AFT RCS HT-ENG R4D-Z	.63	2.92	86	OT
225208	AFT RCS HT-ENG R1U+Z	1.07	4.98	85	OT
225209	AFT RCS HT-ENG R2U+Z	1.07	4.98	84	OT
225211	AFT RCS HT-ENG R4U+Z	1.07	4.98	86	OT
225212	AFT RCS HT-ENG R1A+X	1.07	3.31	85	OT
225213	AFT RCS HT-ENG R3A+X	2.37	7.34	86	OT
225301	AFT RCS HT-ENG L1L+Y	.72	3.35	85	OT

Figure 6.4-11. - Continued

225302	AFT RCS HT-ENG L2L+Y	.72	3.35	84	OT
225303	AFT RCS HT-ENG L3L+Y	.72	3.35	86	OT
225304	AFT RCS HT-ENG L4L+Y	.72	3.35	86	OT
225305	AFT RCS HT-ENG L2D-Z	.63	2.92	84	OT
225306	AFT RCS HT-ENG L3D-Z	.63	2.92	86	OT
225307	AFT RCS HT-ENG L4D-Z	.63	2.92	86	OT
225308	AFT RCS HT-ENG L1U+Z	1.07	4.98	85	OT
225309	AFT RCS HT-ENG L2U+Z	1.07	4.98	84	OT
225310	AFT RCS HT-ENG L2U+Z	1.07	4.98	86	OT
225311	AFT RCS HT-ENG L4U+Z	1.07	3.31	85	OT
225312	AFT RCS HT-ENG L1A+X	1.07	7.34	86	OT
225313	AFT RCS HT-ENG L3A+X	2.37	11.16	9	OT
225401	FWD VRN HT-ENG FSR	1.21	9.77	9	OT
225402	FWD VRN HT-ENG FSL	1.06	7.75	86	OT
225501	AFT VRN HT-ENG R5D-Z	.84	36.60	86	OT
225502	AFT VRN HT-ENG R5R-Y	3.95	7.75	86	OT
225503	AFT VRN HT-ENG L5D-Z	3.84	36.60	86	OT
225504	AFT VRN HT-ENG L5L+Y	3.95		47	OT
300201	FCP #1 O2 FLOWMETER	6.43		48	OT
300202	FCP #2 O2 FLOWMETER	6.43		49	OT
300203	FCP #3 O2 FLOWMETER	6.47		47	OT
300301	FCP #1 H2 FLOWMETER	6.33		48	OT
300302	FCP #2 H2 FLOWMETER	6.43		49	OT
300303	FCP #3 H2 FLOWMETER	6.47		38	OT
300401	FCP1 EL CTL-ORBT	5.08		39	OT
300402	FCP2 EL CTL-ORBT	5.08		40	OT
300403	FCP3 EL CTL-ORBT	4.99		201	OT
300501	FCP1 PMP+H2O SENSOR	235.95		202	OT
300502	FCP2 PMP+H2O SENSOR	236.34		203	OT
300503	FCP3 PMP+H2O SENSOR	239.94		47	OT
305301	H2O VENT LN-HTR A	.44	5.00	47	OT
305401	FCP1 H2O RLF VL HT A	.17	5.08	47	OT
305403	FCP2 H2O RLF VL HT A	.17	5.08	47	OT
305405	FCP3 H2O RLF VL HT A	.17	5.08	49	OT
305602	H2O NO2 BARREL HTR B	2.84	49.98	49	OT
305702	H2O NO2 ORIFICE HT B	23.99		42	OT
310301	O2 INK1 SIG COND QTY	2.33		42	OT
310302	H2 INK1 SIG COND QTY	2.33		41	OT
310303	O2 INK2 SIG COND QTY	2.33		41	OT
310304	H2 INK2 SIG COND QTY	2.53		66	FS
320301	APU1 CNTRLR-OPERATE	7.05		67	FS
320302	APU2 CNTRLR-OPERATE	7.05		68	FS
320303	APU3 CNTRLR-OPERATE	7.05		84	OT
325201	FUEL FEEDLINE HTR 1A	12.95	19.13	85	OT
325203	FUEL FEEDLINE HTR 2A	15.65	21.94	86	OT
325205	FUEL FEEDLINE HTR 3A	10.47	19.11	86	OT
325301	FUEL SERVLIN HTR 1A	12.33	18.97	85	OT
325303	FUEL SERVLIN HTR 2A	9.05	17.31	86	OT
325305	FUEL SERVLIN HTR 3A	11.16	18.96	84	OT
325401	FUEL DRN LINE HTR 1A	7.79	18.98	85	OT
325403	FUEL DRN LINE HTR 2A	10.12	17.07	86	OT
325405	FUEL DRN LINE HTR 3A	5.58	57.73	85	OT
325601	TURB GAS GEN HTR 1A	32.79	57.73	86	OT
325603	TURB GAS GEN HTR 2A	32.79	57.73	86	OT
325605	TURB GAS GEN HTR 3A	32.79	15.94	84	OT
325701	OIL LINE HTR 1A	10.95	16.02	85	OT
325703	OIL LINE HTR 2A	11.37	16.38	86	OT
325705	OIL LINE HTR 3A	11.63			

Figure 6.4-11. - Continued

325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	OT			
325803	APU 2 PRI H2O HTR 1A	2.87	35.00	74	OT			
325805	APU 3 PRI H2O HTR 1A	9.38	35.00	77	OT			
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	OT			
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT			
325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	OT			
326301	GG H2O TK LN HT 504A	4.37	35.00	75	OT			
326303	GG H2O TK LN HT 503A	7.94	35.00	77	OT			
400101	CARIN FAN A	645.94		203	HX			494.00
400201	CAR AIR TEMP CNT PRI	4.42	20.00	214	AC		16.00A	
400301	CAR AIR TMP CN FL-PR	5.23		214	AC		4.00A	
400400	CAR AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	
400600	ARS HUM-SEP-SIG GND	2.35		213	AC			1.40A
400701	PP02 CNTLR-SYS 1	.76		16	AC			
400702	PP02 CNTLR-SYS 2	.76		17	AC			
400711	O2 CONTROL VLV-SYS 1	5.07	50.00	16	AC			
400731	CARIN PRESS SENSOR	2.10		16	AC			
400732	CAR PRES DECAY SENSR	2.10		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.08		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.08		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.08		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.08		17	AC			
400761	PP02 SENSOR-SYS 1	.86		16	AC			
400762	PP02 SENSOR-SYS 2	.86		17	AC			
400763	PP02 SENSOR-SYS 3	.86		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.61		201	A3	168.00		
400901	AVION BAY 1-SIG COND	3.14		218	AC			2.40B
400902	AVION BAY 2-SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3-SIG COND	3.27		215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	7.01		16	OT			
401002	SMOKE DT SNR-R FLT D	7.01		16	OT			
401003	S D SNR A - BAY 1	7.02		18	OT			
401004	S D SNR B - BAY 1	7.01		16	OT			
401005	S D SNR A - BAY 2	7.01		16	OT			
401006	S D SNR B - BAY 2	7.02		18	OT			
401007	S D SNR A - BAY 3	7.01		17	OT			
401008	S D SNR B - BAY 3	7.01		16	OT			
401009	S D SNR - CABIN	7.02		18	OT			
401102	IMU FAN R	61.53		202	AC		48.60	
401200	IMU FAN SIG COND	2.35		218	AC			1.80B
401303	H2O PUMP - LOOP 2	250.79		203	AC			191.80
401501	H2O BYPASS CN SC-PRI	7.72		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.71		217	AC	5.90A		
402311	FOOD WARMER-OFT PHA	265.56		217	AC			203.00A
402312	FOOD WARMER-OFT PHC	265.37		217	AC			203.00C
402901	FREON PMP LP 1-A ASC	475.82	*	201	FR	374.00		
402903	FREON PMP LP 2-A ASC	475.96	*	203	FR			374.00
403001	RAD FLOW CNTLR A-LP1	2.16		17	OT			
403002	RD FL CTR A-LP1 FALT	1.62		17	OT			
403004	RD FL CTR B-LP1 FALT	1.62		16	OT			
403101	RAD FLOW CNTLR A-LP2	2.16		17	OT			
403102	RD FL CTR A-LP2 FALT	1.62		17	OT			
403104	RD FL CTR B-LP2 FALT	1.62		16	OT			
403201	RAD FL CNTL VLV-LP 1	6.04		17	OT			

Figure 6.4-11. - Continued

403202	RAD FL CNTL VLV-LP 2	6.04		17	OT			
403601	FREON COOL LP1 INSTR	6.54		215	OT	5.00B		
403602	FREON COOL LP2 INSTR	6.54		218	OT		5.00B	
403701	FES CONTROLLER PRI A	7.98		86	OT			
403901	FES TOP'G PLSR V-PRI	8.21	27.00	89	OT			
403921	IRNG V. HLNG COIL-ER	3.11	80.00	89	OT			
406000	VACUUM VNT NO2 HTR	11.40		5	OT			
408101	PRI FWTR LN HTA-TS5	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS6	3.02	14.26	84	OT			
408105	PRI FWTR LN HTA-TS7	7.75	15.16	87	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	84	OT			
408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408203	SEC FWTR LN HTA-TS12	2.87	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	9.43	18.46	89	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	86	OT			
409001	TOP'G DUCT HTR1 SEC1	46.53	12.28	47	OT			
409101	TOP'G DUCT HTR1 SEC2	116.26	24.81	47	OT			
409201	TOP'G DUCT HTR1 SEC3	26.30	41.88	84	OT			
409301	TOP'G DUCT HTR1 SEC4	26.30	40.59	84	OT			
409401	SONIC LFT NOZ HTR 1A	11.25	45.02	84	OT			
409501	SONIC RHT NOZ HTR 2A	11.12	45.02	85	OT			
500801	RESVOIR -1 VOL SN5R	1.83		212	OT	1.40B		
500802	RESVOIR -2 VOL SN5R	1.83		215	OT		1.40B	
500803	RESVOIR -3 VOL SN5R	1.83		218	OT			1.40B
503701	H2O BLR1 CNT LOGIC A	4.71		217	OT			3.60A
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79		214	OT		2.90A	
503801	H2O BOILP 1 CNTL A	.83		65	OT			
503803	H2O BOILP 2 CNTL A	.72		63	OT			
503805	H2O BOILP 3 CNTL A	.83		64	OT			
505301	WSR TK/BOILER HTR 1A	6.05	3.81	65	OT			
505303	WSR TK/BOILER HTR 2A	8.38	5.42	63	OT			
505305	WSR TK/BOILER HTR 3A	7.67	4.83	64	OT			
		TOTAL INVERTER WATTS =		1674.30		1061.90	2227.53	
		TOTAL 3 PHASE WATTS =		958.60		591.00	1245.40	
		TOTAL A PHASE WATTS =		250.60		155.80	215.80	
		TOTAL B PHASE WATTS =		201.40		175.60	68.40	
		TOTAL C PHASE WATTS =		3.00		.00	203.00	

Figure 6.4-11. - Concluded

TOTAL WATTS - 16722.66
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 032:30:00.0

Figure 6.4-12.- Vehicle configuration at 1 day 14 hours (middle of sleep)

LISTING OF ALL ACTIVE COMPONENTS AT TIME 038:00:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEO LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-12. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	121.18			28	WC			
010102	IMU =2 OPERATE	121.18	*		29	WC			
010103	IMU =3 OPERATE	121.18	*		30	WC			
011101	RJDF =1A PRI RCS	10.60			22	W1			
011102	RJDF =1B PRI RCS	10.60			23	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
020802	NTWK SIG PROCESSOR 2	30.50			34	W3			
021101	S-BAND FM XMITT =1	11.33		15.00	33	W3			
021200	S-BAND FM SIG PRD-ORD	.81		15.00	36	A3			
021302	S-BND XPNDR=2-DIRECT	63.50	*		34	W3			
021600	S-BND ANT SW ASY-QES	.60	*		33	A3			
024101	AUDIO CENTER 1	41.30			42	W1			
024207	AUDIO TERM UNIT-MD=1	3.71			11	AC			
024702	SPKR MIKE UNIT-MID DK	1.87		80.00	11	AC			
024910	MULTIPLE HOSET ADPTR	.72		40.00	11	OT			
028101	TV CAM HTR-FWD PLB	7.96		40.00	10	OT			
028102	TV CAM HTR-AFT PLB	7.96		40.00	15	OT			
028105	TV CAM HTR-KEEL BAY	7.96		40.00	11	OT			
028201	PAN TLT HTR-FWD BAY	3.28		40.00	10	OT			
028202	PAN TLT HTR-AFT BAY	3.28		40.00	15	OT			
028203	PAN TLT HTR-KEEL BAY	3.28		40.00	15	OT			
030103	ADI =3 AFT	18.77			21	AC			
031400	OMS/RCS PROP QTY IND	4.94			16	AC			
031501	C+W PUR SUP A-STBY	22.12			41	A3			
031502	C+W PUR SUP B-STBY	14.04			42	A3			
031701	MISSION TIMER =1 FWD	3.86			16	AC			
031702	MISSION TIMER =2 AFT	3.97			17	AC			
031801	EVENT TIMER =1 FWD	3.31			16	AC			
031802	EVENT TIMER =2 AFT	3.31			21	AC			
032203	DDU =3 AFT	120.00			21	HX			
032704	CRT DU =4 - HSS	20.69	*		24	HX			
033301	NUMERIC LIGHTS-FWD	22.88			212	AC	17.508		
033701	MID DECK PANEL LT =1	6.99			6	AC			
033702	MID DECK PANEL LT =2	6.96			4	AC			
033800	WASTE HGT COMPARTMENT	17.40			4	AC			
034201	FLIGHT OK FLDLT-OS	5.04	*		11	AC			
034202	GLARSHLD FLDLT-LEFT	8.53	*		41	AC			
034203	GLARSHLD FLDLT-RGHT	8.52	*		42	AC			
034206	CONSOLE FLDLT-CMD(L)	9.09		50.00	16	AC			
035600	C+W ANNUN ASSY-OPR	8.27	*		41	AC			
037200	CICU OPER	7.21	*		43	A1			
037301	ACA =1	14.22		13.80	16	AC			
037302	ACA =2/3	28.62		13.70	17	AC			
037303	ACA =4/5	25.59		15.60	18	AC			
037401	ANNUN 1	3.06		6.70	16	AC			
037402	ANNUN 2/3	5.69		6.70	17	AC			
037403	ANNUN 4/5	4.77		6.70	18	AC			
040301	PCH MASTER UNIT =1	55.00			30	W1			

Figure 6.4-12. - Continued

040401	OPS-1 RECORDER-REPLY	17.14	*	28	W2
040402	OPS-2 RECORDER-REPLY	56.44	*	28	W2
040403	PAYLT RECORDER-REPLY	2.64	*	30	W1
040501	DED SIG CMD OF1- FWD	27.80		19	W1
040502	DED SIG CMD OF2- FWD	32.60		20	W2
040503	DED SIG CMD OF3- FWD	26.80		20	W1
040601	DED SIG CMD OA1- AFT	36.20		66	F4
040602	DED SIG CMD OA2- AFT	29.10		67	F5
040603	DED SIG CMD OA3- AFT	29.10		68	F6
040604	MTU - OPER	31.85		41	W4
041201	DSC OL1 OMS/RCS	23.30		78	OT
041202	DSC OL2 OMS/RCS	21.40		80	OT
041203	DSC OL3 OMS/RCS	23.30		78	OT
041204	DSC OL4 OMS/RCS	21.40		78	OT
041301	DSC OM1 MID FUS	13.90		19	OT
041302	DSC OM2 MID FUS	22.10		19	OT
041400	DSC CF4 FWD RCS	26.90		19	OT
041601	WDRND S/C = 1 (BAY4)	.42		61	OT
041602	WDRND S/C = 2 (BAY4)	.42		61	OT
041603	WDRND S/C = 3 (BAY4)	.42		61	OT
041604	WDRND S/C = 4 (BAY4)	.42		61	OT
041701	WDRND S/C = 1 (BAY5)	.42		64	OT
041702	WDRND S/C = 2 (BAY5)	.42		64	OT
050100	PLR DIST ASSY FWD	11.00		12	OW
050201	PLR DIST ASSY = 1 MID	10.15		44	D1
050202	PLR DIST ASSY = 2 MID	10.15		44	D2
050203	PLR DIST ASSY = 3 MID	10.15		44	D3
050301	PCM MASTER UNIT = 1	55.00		24	OW
050401	DSC FWD = 1-SOF1	22.20		12	OW
050402	DSC FWD = 2-SOF2	22.20		12	OW
050403	DSC FWD = 3-SOF3	22.50		12	OW
050501	DSC UNIT #1 - SOL1	16.60		44	D1
050502	DSC UNIT #2 - SOL2	24.70		44	D1
050503	DSC UNIT #3 - SOL3	16.60		44	D1
050504	DSC UNIT #4 - SOL4	24.70		44	D1
050505	DSC UNIT #5 - SOL5	46.70		44	D1
050506	DSC UNIT #1 - SDR1	16.60		44	D2
050507	DSC UNIT #2 - SDR2	24.70		44	D2
050508	DSC UNIT #3 - SDR3	16.60		44	D2
050509	DSC UNIT #4 - SDR4	46.80		44	D2
050601	DSC UNIT #1 - SOC1	16.60		44	D3
050602	DSC UNIT #2 - SOC2	23.90		44	D3
050603	DSC UNIT #3 - SOC3	16.60		44	D3
050604	DSC UNIT #4 - SOC4	17.70		44	D3
050605	DSC UNIT #5 - SOC5	16.60		44	D3
050701	WB FDM 1A (FMF1)-FWD	13.75	50.00	12	OW
050702	WB FDM 1B (FMF1)-FWD	13.75	50.00	12	OW
050820	FREQN FLOMTR-MID LT3	2.08		47	D3
050831	LOAD SEN ACCEL-1 FWD	3.85		12	OW
050832	LOAD SEN ACCEL-2 FWD	3.85		12	OW
050833	LOAD SEN ACCEL-MR 2	14.56		47	D2
050834	LOAD SEN ACCEL-MR 3	10.92		48	D2
050936	PCB PCOR-RECD-SERIAL	61.62	*	12	OW
051011	WESC FWD (A131)-100%	1.08		47	D3
051332	WESC LMS (A145)-100%	2.92		47	D3
051333	WESC LMS (A145)-100%	1.33		48	D3
051501	WESC FWD (A161)-100%	28.42		12	OW

Figure 6.4-12. - Continued

051502	SGSC FWD (A1611)-100%	18.05	12	DW			
051611	SGSC ML1 (A1621)-100%	96.61	47	D1			
051621	SGSC ML1 (A1631)-100%	68.19	47	D1			
051624	SGSC ML1 (A1631)-100%	8.01	48	D1			
051625	SGSC ML1 (A1631)-100%	32.07	47	D1			
051631	SGSC MR2 (A1641)-100%	119.18	48	D2			
051632	SGSC MR2 (A1641)-100%	24.02	48	D2			
051641	SGSC MR2 (A1651)-100%	107.85	48	D2			
051642	SGSC MR2 (A1651)-100%	40.04	48	D2			
051651	SGSC MR2 (A1691)-100%	73.84	48	D2			
051654	SGSC MR2 (A1691)-100%	32.03	48	D2			
051661	SGSC ML3 (A1661)-100%	79.45	48	D3			
051671	SGSC ML3 (A1671)-100%	62.40	48	D3			
051673	SGSC ML3 (A1671)-100%	24.02	48	D3			
051700	MDM DF1 - FWD	53.90	12	DW			
051801	MDM DL1 - MID LEFT 1	50.00	44	D1			
051802	MDM DL2 - MID LEFT 1	50.20	44	D1			
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2			
051804	MDM DR2 - MID RIGHT 2	52.80	44	D2			
051805	MDM DC1 - MID LEFT 3	49.10	44	D3			
051806	MDM DC2 - MID LEFT 3	52.50	44	D3			
051900	S-BAND FM XMITR-DEFI	132.04	12	DW			
052200	ARS DFI SIGNAL COND	8.10	215	OT		6.208	1.50A
052300	ATCS DFI SIGNAL COND	1.96	217	OT			
052401	DFI FREON PUMP H1	305.88	201	D1	234.00		
052500	3-AXIS ACCEL	1.87	12	OT			
060901	GRND CHDS INTFC UN A	29.92	33	W3			
061001	INV DIST+CTL ASY1-DC	.62	41	A1			
061002	INV DIST+CTL ASY1-AC	2.75	201	A1	2.10		
061003	INV DIST+CTL ASY2-DC	.62	42	A2			
061004	INV DIST+CTL ASY2-AC	2.75	202	A2	2.10		
061005	INV DIST+CTL ASY3-DC	.62	43	A3			
061006	INV DIST+CTL ASY3-AC	2.75	203	A3		2.10	
061701	CURR SENSOR-MIDBODY=1	3.60	7	OT			
061702	CURR SENSOR-MIDBODY=2	3.62	8	OT			
061703	CURR SENSOR-MIDBODY=3	3.62	9	OT			
061704	CURR SENSOR-PL MN B	1.16	64	OT			
061705	CURR SENSOR-PL MN C	1.16	65	OT			
061706	CURR SENSOR-LH ADP	1.14	22	OT			
061707	CURR SENSOR-LH ADP	1.14	23	OT			
061708	CURR SENSOR-RH ADP	1.14	23	OT			
061709	CURR SENSOR-RH ADP	1.14	23	OT			
061801	H202 CRYO ASY1A-QUES	12.50	7	FM			
061802	H202 CRYO ASY1B-QUES	12.57	9	FM			
061803	H202 CRYO ASY1A-HZCY	6.99	7	FM			
061804	H202 CRYO ASY1B-HZCY	7.03	9	FM			
061811	H202 CRYO ASY2A-QUES	12.55	8	FM			
061812	H202 CRYO ASY2B-QUES	12.57	9	FM			
061813	H202 CRYO ASY2A-HZCY	7.02	8	FM			
061814	H202 CRYO ASY2B-HZCY	7.03	9	FM			
062101	MTP CNTL ASSY FWD =1	4.19	15.00	22	W1		
062102	MTP CNTL ASSY FWD =2	3.88	12.50	23	W2		
062103	MTR CNTL ASSY FWD =3	5.28	18.90	24	W3		
062201	MTR CNTL ASSY MID =1	12.50	22.80	44	FM		
062202	MTP CNTL ASSY MID =2	12.95	13.50	45	FM		
062203	MTR CNTL ASSY MID =3	10.87	20.20	44	FM		
062204	MTR CNTL ASSY MID =4	12.80	13.20	45	FM		

Figure 6.4-12. - Continued

062301	MTR CNTL ASSY AFT 1	9.47	20.00	63	F4
062302	MTR CNTL ASSY AFT 2	8.93	20.70	64	F5
062303	MTR CNTL ASSY AFT 3	16.10	30.60	65	F6
062401	LOAD CNTL ASSY FWD1	25.16	28.00	32	W1
062402	LOAD CNTL ASSY FWD2	27.48	30.61	33	W2
062403	LOAD CNTL ASSY FWD3	27.08	30.18	34	W3
062501	LOAD CNTL ASSY AFT1	15.06	25.61	84	F4
062502	LOAD CNTL ASSY AFT2	15.47	27.47	85	F5
062503	LOAD CNTL ASSY AFT3	82.88	34.81	86	F6
062601	PCA FWD 1	101.24	30.01	22	W1
062602	PCA FWD 2	42.66	12.65	23	W2
062603	PCA FWD 3	47.01	13.93	24	W3
062701	PCA MID 1	42.27	35.31	47	FM
062702	PCA MID 2	50.18	41.96	48	FM
062703	PCA MID 3	34.26	28.43	49	FM
062801	PCA AFT 1	31.01	34.55	72	F4
062802	PCA AFT 2	30.36	33.81	73	F5
062803	PCA AFT 3	27.59	30.85	74	F6
062804	PCA AFT 4	27.46	30.68	60	F4
062805	PCA AFT 5	32.09	35.86	61	F5
062806	PCA AFT 6	20.34	22.73	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	308.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	308.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	313.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	313.00	*	31	A2
070301	MDM FF1	58.90		28	W1
070302	MDM FF2	60.00		29	W2
070303	MDM FF3	58.50		30	W3
070304	MDM FF4	58.60		29	W2
070401	MDM FA1	54.60		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	54.60		68	F6
070404	MDM FA4	56.20		68	F6
070901	MM #1 TAPE OPER	20.67	*	22	W1
070902	MM #2 TAPE OPER	20.67	*	23	W2
071001	MDM OF1 1	46.80		19	W1
071002	MDM OF1 2	46.80		21	W2
071003	MDM OF1 3	47.40		21	W3
071004	MDM OF1 4 FLT DECK	40.40		21	WC
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
075001	GPC CNTLR 1 PS A	7.36		31	A1
075002	GPC CNTLR 1 PS B	7.36		31	A1
075003	GPC CNTLR 2 PS A	7.36		31	A2
075004	GPC CNTLR 2 PS B	7.36		31	A2
075005	GPC CNTLR 3 PS A	7.36		31	A2
075006	GPC CNTLR 3 PS B	1.41		31	A2
203701	ENG 1 FASCOS SYS A	24.21		63	OT

Figure 6.4-12. - Continued

203702	ENG 1 FASCOS SYS B	24.21	64	OT
203703	ENG 1 FASCOS SYS C	24.21	65	OT
203704	ENG 2 FASCOS SYS A	24.21	63	OT
203705	ENG 2 FASCOS SYS B	24.21	64	OT
203706	ENG 2 FASCOS SYS C	24.21	65	OT
203707	ENG 3 FASCOS SYS A	24.21	63	OT
203708	ENG 3 FASCOS SYS B	24.21	64	OT
203709	ENG 3 FASCOS SYS C	24.21	65	OT
210701	LP ACT GMBL INST/LOG	7.48	72	OT
210702	LP STB GMBL INST/LOG	7.48	73	OT
210703	RP ACT GMBL INST/LOG	7.45	74	OT
210704	RP STB GMBL INST/LOG	7.48	72	OT
211501	BIPROP VL1 LP POS ID	1.50	72	OT
211502	BIPROP VL2 LP POS ID	1.50	73	OT
211503	BIPROP VL1 RP POS ID	1.50	72	OT
211504	BIPROP VL2 RP POS ID	1.49	74	OT
212106	TK ISO/XFD VL TLKCK	0.32	72	AC
212401	QUAN GAGE TOT-LP-OPR	9.75	78	OT
212402	QUAN GAGE TOT-RP-OPR	9.76	80	OT
215101	GSE SR PN HT A-43-LP	9.77	72	OT
215102	ENG SR PN HT A-37-LP	10.71	72	OT
215103	OME COVER HT A-53-LP	37.91	72	OT
215104	Y-WB OTED HT A-27-LP	26.86	72	OT
215105	Y-WB INED HT A-33-LP	23.03	72	OT
215106	Y-WB UPB HT A-31-LP	6.06	72	OT
215107	CT LN WB HT A1-21-LP	71.84	72	OT
215108	CT LN WB HT A2-21-LP	75.64	72	OT
215109	CT LN WB HT A3-21-LP	37.80	72	OT
215110	CT LN WB HT A4-21-LP	77.53	72	OT
215111	RCS HSNG HT A1-41-LP	22.71	72	OT
215112	RCS HSNG HT A2-41-LP	19.60	72	OT
215113	GSE SR PN HT A-44-RP	9.77	72	OT
215301	ENG SR PN HT A-38-RP	10.71	72	OT
215302	OME COVER HT A-54-RP	37.91	73	OT
215303	Y-WB OTED HT A-28-RP	26.86	73	OT
215304	Y-WB INED HT A-34-RP	23.03	73	OT
215305	Y-WB UPB HT A-32-RP	6.06	73	OT
215306	CT LN WB HT A1-22-RP	71.84	73	OT
215307	CT LN WB HT A2-22-RP	75.64	73	OT
215308	CT LN WB HT A3-22-RP	37.80	73	OT
215309	CT LN WB HT A4-22-RP	77.53	73	OT
215310	RCS HSNG HT A1-42-RP	22.71	73	OT
215311	RCS HSNG HT A2-42-RP	19.60	73	OT
217001	XFD OX/FU FLXL HTA-L	10.70	72	OT
217002	XFD OX/FU FLXL HTA-R	10.70	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	72	OT
217102	XFD OX/FU LNE HT-A-R	7.44	72	OT
217103	XFD OX/FU LNE HT-A-C	9.77	72	OT
217104	XFD OX/FU LNE HT-A-M	4.19	72	OT
217201	FU HIPT BLOLN HT-A-A	6.74	72	OT
217202	FU HIPT BLOLN HT-A-B	4.65	72	OT
217301	OX HIPT BLOLN HT-A-A	6.98	72	OT
217302	OX HIPT BLOLN HT-A-B	1.40	72	OT
217401	LOPT OX/FU ORLN HTA-L	1.40	72	OT
217402	LOPT OX/FU ORLN HTA-R	1.40	72	OT
220101	FWD THRUSTER F1F(-X)	.11	24	OT
220102	FWD THRUSTER F2F(-X)	.11	24	OT
220103	FWD THRUSTER F3F(-X)	.11	24	OT

Figure 6.4-12. - Continued

220111	FWD THRUSTER	R F3L (+Y)	.11	.15	24	OT
220201	AFT THRUSTER	R R1R (-Y)	.15	.20	78	OT
220204	AFT THRUSTER	R R2R (-Y)	.15	.20	80	OT
220207	AFT THRUSTER	R L1L (+Y)	.15	.20	79	OT
220214	AFT THRUSTER	R L1L (+Y)	.15	.20	76	OT
220217	AFT THRUSTER	R L2L (+Y)	.15	.20	80	OT
220221	AFT THRUSTER	R L3L (+Y)	.15	.20	79	OT
220301	FWD RCS	HT-ENG F1F-X	4.44	20.66	7	OT
220302	FWD RCS	HT-ENG F1L+Y	1.51	7.04	7	OT
220303	FWD RCS	HT-ENG F1U+Z	1.51	16.44	7	OT
220304	FWD RCS	HT-ENG F1D-Z	1.92	8.91	7	OT
220305	FWD RCS	HT-ENG F2F-X	4.51	20.98	8	OT
220306	FWD RCS	HT-ENG F2R-Y	1.72	8.01	8	OT
220307	FWD RCS	HT-ENG F2U+Z	1.47	16.12	8	OT
220308	FWD RCS	HT-ENG F2D-Z	2.41	11.21	8	OT
220309	FWD RCS	HT-ENG F3F-X	7.84	17.85	8	OT
220311	FWD RCS	HT-ENG F3L+Y	1.55	7.19	8	OT
220312	FWD RCS	HT-ENG F3U+Z	1.42	15.90	8	OT
220313	FWD RCS	HT-ENG F3D-Z	1.92	8.91	8	OT
220314	FWD RCS	HT-ENG F4R-Y	1.58	7.33	9	OT
220315	FWD RCS	HT-ENG F4D-Z	1.93	8.91	9	OT
220301	AFT RCS	HT-ENG R1R-Y	.72	3.35	85	OT
220302	AFT RCS	HT-ENG R2R-Y	.72	3.35	84	OT
220303	AFT RCS	HT-ENG R3R-Y	.72	3.35	86	OT
220304	AFT RCS	HT-ENG R4R-Y	.72	3.35	86	OT
220305	AFT RCS	HT-ENG R2D-Z	.63	2.92	84	OT
220306	AFT RCS	HT-ENG R3D-Z	.63	2.92	86	OT
220307	AFT RCS	HT-ENG R4D-Z	.63	2.98	85	OT
220308	AFT RCS	HT-ENG R1U+Z	1.07	4.98	84	OT
220309	AFT RCS	HT-ENG R2U+Z	1.07	4.98	86	OT
220311	AFT RCS	HT-ENG R4U+Z	1.07	4.98	86	OT
220312	AFT RCS	HT-ENG R1A+X	1.07	3.31	85	OT
220313	AFT RCS	HT-ENG R3A+X	2.37	7.34	86	OT
220301	AFT RCS	HT-ENG L1L+Y	.72	3.35	85	OT
220302	AFT RCS	HT-ENG L2L+Y	.72	3.35	84	OT
220303	AFT RCS	HT-ENG L3L+Y	.72	3.35	86	OT
220304	AFT RCS	HT-ENG L4L+Y	.72	3.35	86	OT
220305	AFT RCS	HT-ENG L2D-Z	.63	2.92	84	OT
220306	AFT RCS	HT-ENG L3D-Z	.63	2.92	86	OT
220307	AFT RCS	HT-ENG L4D-Z	.63	2.98	85	OT
220308	AFT RCS	HT-ENG L1U+Z	1.07	4.98	84	OT
220309	AFT RCS	HT-ENG L2U+Z	1.07	4.98	86	OT
220311	AFT RCS	HT-ENG L4U+Z	1.07	4.98	86	OT
220312	AFT RCS	HT-ENG L1A+X	1.07	3.31	85	OT
220313	AFT RCS	HT-ENG L3A+X	2.37	7.34	86	OT
220401	FWD VRN	HT-ENG FSR	1.27	11.16	9	OT
220402	FWD VRN	HT-ENG FSL	1.06	9.75	86	OT
220501	AFT VRN	HT-ENG RSD-Z	.88	7.50	86	OT
220502	AFT VRN	HT-ENG RSR-Y	3.92	36.60	86	OT
220503	AFT VRN	HT-ENG LSD-Z	.88	7.50	86	OT
220504	AFT VRN	HT-ENG LSL+Y	3.92	36.60	86	OT
300201	FCP	H2 FLOWMETER	6.55		47	OT
300202	FCP	H2 FLOWMETER	6.55		49	OT
300203	FCP	H2 FLOWMETER	6.55		47	OT
300301	FCP	H2 FLOWMETER	6.55		48	OT
300302	FCP	H2 FLOWMETER	6.55		48	OT
300303	FCP	H2 FLOWMETER	6.60		49	OT

Figure 6.4-12. - Continued

300401	FCP1 EL CTL-ORBT	5.20		38	OT			
300402	FCP2 EL CTL-ORBT	5.20		38	OT			
300403	FCP3 EL CTL-ORBT	5.20		38	OT			
300501	FCP1 PMP+H2O SENSOR	21.10		40	OT	180.50		
300502	FCP2 PMP+H2O SENSOR	23.66		202	OT		180.80	
300503	FCP3 PMP+H2O SENSOR	23.98		202	OT			183.50
305301	H2O VENT LN HTR A	.44		47	OT			
305401	FCP1 H2O RLF VL HT A	.17	5.00	47	OT			
305402	FCP2 H2O RLF VL HT A	.17	5.00	47	OT			
305403	FCP3 H2O RLF VL HT A	.17	5.00	47	OT			
305602	H2O NOZ RAPREL HTR B	2.84	49.98	49	OT			
305702	H2O NOZ ORFICE HT B	2.31	49.98	49	OT			
310301	O2 TKN1 SIG COND QTY	2.37		42	OT			
310302	H2 TKN1 SIG COND QTY	2.37		42	OT			
310303	O2 TKN2 SIG COND QTY	2.37		41	OT			
310304	H2 TKN2 SIG COND QTY	2.37		41	OT			
311901	H2 TANK 1 HEATER A	97.20		9	OT			
311902	H2 TANK 1 HEATER B	97.20		9	OT			
311903	H2 TANK 2 HEATER A	98.80		9	OT			
311904	H2 TANK 2 HEATER B	98.80		9	OT			
320301	APU1 CNTLR-OPERATE	7.19		66	F4			
320302	APU2 CNTLR-OPERATE	7.19		67	F5			
320303	APU3 CNTLR-OPERATE	7.19		68	F6			
325201	FUEL FEEDLINE HTR 1A	12.95	19.13	84	OT			
325202	FUEL FEEDLINE HTR 2A	15.63	19.32	85	OT			
325203	FUEL FEEDLINE HTR 3A	10.47	21.34	86	OT			
325301	FUEL SERVLIN HTR 1A	12.33	19.11	84	OT			
325302	FUEL SERVLIN HTR 2A	9.05	18.97	85	OT			
325303	FUEL SERVLIN HTR 3A	11.16	17.31	86	OT			
325401	FUEL DRN LINE HTR 1A	7.79	18.86	84	OT			
325402	FUEL DRN LINE HTR 2A	10.12	18.96	85	OT			
325403	FUEL DRN LINE HTR 3A	5.58	17.07	86	OT			
325601	TURB GAS GEN HTR 1A	32.79	57.73	84	OT			
325602	TURB GAS GEN HTR 2A	32.79	57.73	85	OT			
325603	TURB GAS GEN HTR 3A	32.79	57.73	86	OT			
325701	OIL LINE HTR 1A	10.95	15.94	84	OT			
325702	OIL LINE HTR 2A	11.37	16.02	85	OT			
325703	OIL LINE HTR 3A	11.63	16.38	86	OT			
325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	OT			
325802	APU 2 PRI H2O HTR 1A	2.87	35.00	76	OT			
325803	APU 3 PRI H2O HTR 1A	9.38	35.00	77	OT			
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	OT			
325902	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT			
325903	APU 3 SEC H2O HTR 2A	4.79	35.00	77	OT			
326301	GG H2O TK LN HT 504A	4.37	35.00	75	OT			
326302	GG H2O TK LN HT 503A	7.94	35.00	77	OT			
400101	CABIN FAN A	645.75		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COMD	4.84		212	AC	3.708		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	
400600	ARS HUM SEP SIG CND	2.35		217	AC			1.80A
400701	PP02 CNTLR-SYS 1	.77		16	AC			
400702	PP02 CNTLR-SYS 2	.77		17	AC			
400711	O2 CONTROL VLV-SYS 1	5.18	50.00	16	AC			
400731	CABIN PRESS SENSOR	.77		16	AC			
400732	CAB PRES DELAY SENSR	2.21		17	AC			

Figure 6.4-12. - Continued

400751	O2 FLOW SENSOR-SYS 1	1.10	16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.10	17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.10	16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.10	17	AC			
400761	PP02 SENSOR-SYS 1	.88	17	AC			
400762	PP02 SENSOR-SYS 2	.88	17	AC			
400763	PP02 SENSOR-SYS 3	.88	17	AC			
400802	AVION FAN-BAY 1 (B)	219.61	202	A1	168.00		
400803	AVION FAN-BAY 2 (A)	213.07	202	A2	163.00		
400804	AVION FAN-BAY 3 (B)	219.61	202	A3	168.00	2.408	
400901	AVION BAY 1 SIG COND	3.14	218	AC	1.808	2.508	
400902	AVION BAY 2 SIG COND	2.35	212	AC			
400903	AVION BAY 3 SIG COND	3.27	215	AC			
401001	S D SNR-L FLT D	7.16	16	OT			
401002	S D SNR-R FLT D	7.16	16	OT			
401003	S D SNR A - BAY 1	7.18	18	OT			
401004	S D SNR B - BAY 1	7.17	17	OT			
401005	S D SNR A - BAY 2	7.16	18	OT			
401006	S D SNR B - BAY 2	7.18	18	OT			
401007	S D SNR A - BAY 3	7.17	17	OT			
401008	S D SNR B - BAY 3	7.16	16	OT			
401009	S D SNR - CAPTN	7.18	18	OT			
401102	THU FAN B	63.53	202	WC	48.60		
401200	THU FAN SIG COND	2.35	218	AC			
401300	H2O PUMP - LOOP 2	250.72	203	WC			
401501	H2O BYPASS CN SC-PRI	7.71	211	AC	5.90A		
401502	H2O BYPASS CN SC-SEC	7.71	203	AC	374.00		
402901	FREON PHP LP 1-A ASC	475.82	203	FP			
402902	FREON PHP LP 2-A ASC	475.82	203	FP			
403001	RAD FLOW CNTLR A-LP1	2.21	17	OT			
403002	RD FL CTR A-LP1 FALT	1.66	17	OT			
403004	RD FL CTR B-LP1 FALT	1.65	16	OT			
403101	RAD FLOW CNTLR A-LP2	2.21	17	OT			
403102	RD FL CTR A-LP2 FALT	1.66	16	OT			
403104	RD FL CTR B-LP2 FALT	1.65	17	OT			
403201	RAD FL CNTL VLV-LP 1	6.18	17	OT			
403202	RAD FL CNTL VLV-LP 2	6.16	17	OT			
403601	FREON COOL LP1 INSTR	6.54	218	OT	5.008	5.008	
403602	FREON COOL LP2 INSTR	6.54	218	OT			
403701	FES CONTROLLER PRI A	8.14	86	OT			
403901	FES TOP'G PLSR V-PRI	8.38	89	OT			
403902	TPNG V HLNG COIL-PRI	3.17	89	OT			
406000	VACUUM VNT NO2 HTR	11.40	5	OT			
408101	PRT FWTR LN HTA-TS5	1.53	7.24	84			
408102	PRT FWTR LN HTA-TS6	3.02	14.26	84			
408103	PRT FWTR LN HTA-TS7	7.75	15.16	47			
408104	PRT FWTR LN HTA-TS8	2.79	6.52	84			
408107	PRT FWTR LN HTA-TS9	1.01	4.78	86			
408201	SEC FWTR LN HTA-TS11	2.67	13.56	86			
408203	SEC FWTR LN HTA-TS12	9.43	18.46	49			
408205	SEC FWTR LN HTA-TS13	3.95	8.17	86			
408207	SEC FWTR LN HTA-TS14	46.53	12.28	47			
409001	TOP'G DUCT HTR1 SECC1	116.26	24.81	84			
409101	TOP'G DUCT HTR1 SECC2	26.30	41.88	84			
409201	TOP'G DUCT HTR1 SECC3	26.30	40.59	84			
409301	TOP'G DUCT HTR1 SECC4	11.25	45.02	84			
409401	SONIC LFT NCZ HTR 1A	11.12	45.02	85			
409501	SONIC RHT NOZ HTR 2A						

Figure 6.4-12. - Continued

500601	RESVOIR #1 VOL SNSR	1.83	212	OT	1.408		
500602	RESVOIR #2 VOL SNSR	1.83	215	OT		1.408	
500803	RESVOIR #3 VOL SNSR	1.83	218	OT			1.408
503701	H2O BLP1 CNT LOGIC A	4.71	217	OT			3.60A
503703	H2O BLP2 CNT LOGIC A	3.92	213	OT	3.00C		
503705	H2O BLP3 CNT LOGIC A	3.79	214	OT		2.90A	
503801	H2O BOILER 1 CNTL A	.84	65	OT			
503803	H2O BOILER 2 CNTL A	.74	63	OT			
503805	H2O BOILER 3 CNTL A	.84	64	OT			
505301	WSP TK/BOILER HTR 1A	6.05	3.81	OT			
505303	WSP TK/BOILER HTR 2A	8.38	5.42	OT			
505305	WSP TK/BOILER HTR 3A	7.67	4.83	OT			
			TOTAL INVERTER WATTS	=	1283.53	805.73	1645.49
			TOTAL 1 PHASE WATTS	=	958.60	591.00	1249.40
			TOTAL A PHASE WATTS	=	5.90	23.80	12.80
			TOTAL B PHASE WATTS	=	24.40	15.10	10.60
			TOTAL C PHASE WATTS	=	3.00	.00	.00

Figure 6.4-12. - Concluded

715

TOTAL WAITS = 14838.03
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 038:00:00.0

Figure 6.4-13.- Vehicle configuration at 1 day 23 hours 15 minutes

716

LISTING OF ALL ACTIVE COMPONENTS AT TIME 047:15:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-13. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO. 1 (WATTS)	INVERTER NO. 2 (WATTS)	INVERTER NO. 3 (WATTS)
010101	IMU =1 OPERATE	120.62			28	WC			
010102	IMU =2 OPERATE	120.62	*		28	WC			
010103	IMU =3 OPERATE	120.62	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.66			17	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
020802	NTWK SIG PROCESSOR 2	29.87			34	W3			
021101	S-RAND FM XMITR =1	11.00		15.00	33	W3			
021200	S-BND FM SIG PRO-ORB	.79		15.00	36	A3			
021302	S-BND XPNDR=2-DIRECT	62.18	*		34	W3			
021600	S-RND ANT SL ASY-QES	.59	*		33	A3			
024101	AUDIO CENTER 1	40.64			42	W1			
024201	AUDIO TERM UN-PLT RT	3.56			42	AC			
024202	AUDIO TERM UN-CDR LT	3.56			41	AC			
024203	AUDIO TERM UNIT-MSS	3.64			10	AC			
024204	AUDIO TERM UNIT-PS	3.81			15	AC			
024701	SPKR MIKE UNIT -OS	1.83		80.00	10	AC			
024702	SPKR MIKE UNIT-MID DK	1.84		80.00	11	AC			
024901	HDSET INTF UNIT-PLT	.71			42	AC			
024902	HDSET INTF UNIT-CMDR	.71			41	AC			
024910	MULTIPLE HDSET ADPTR	.71			41	AC			
028101	TV CAM HTR-FWD PLB	7.96		40.00	11	OT			
028102	TV CAM HTR-AFT PLB	7.96		40.00	10	OT			
028105	TV CAM HTR-KEEL BAY	7.96		40.00	15	OT			
028201	PAN TLT HTR-FWD BAY	3.28		40.00	11	OT			
028202	PAN TLT HTR-AFT BAY	3.28		40.00	10	OT			
028203	PAN TLT HTR-KEEL BAY	3.28		40.00	15	OT			
030101	ADI =1 FWD LH	18.41			19	AC			
030103	ADI =3 AFT	18.44			21	AC			
031400	OMS/RCS PROP QTY IND	4.91			18	AC			
031501	C-W PWR SUP A-STBY	21.77			41	A3			
031502	C-W PWR SUP B-STBY	13.82			42	A3			
031701	MISSION TIMER =1 FWD	3.79			16	AC			
031702	MISSION TIMER =2 AFT	3.91			17	AC			
031801	EVENT TIMER =1 FWD	3.26			17	AC			
031802	EVENT TIMER =2 AFT	3.25			16	AC			
032201	DDU =1 FWD LH	120.00			19	HX			
032203	DDU =3 AFT	120.00			21	HX			
032701	CRT DU =1 - LF	90.90			22	HX			
032703	CRT DU =3 - CF	90.90			24	HX			
032801	DEU =1	202.00			22	HX			
032603	DEU =3	202.00			24	HX			
033101	PANEL LTS - LEFT/CTR	170.85		67.00	211	AC	195.00A		
033102	PANEL LTS - LEFT/OVHD	155.13		67.00	212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	116.48		67.00	215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	115.61		67.00	214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	50.62		67.00	218	AC			57.80B

Figure 6.4-13. - Continued

033202	INSTR LTS - OVERHEAD	24.08	67.00	215	AC		
033301	NUMERIC LIGHTS-FWD	22.89		212	AC	17.508	27.508
033501	MID DK FLDLT 1	17.13		4	AC		
033502	MID DK FLDLT 2	17.23		5	AC		
033503	MID DK FLDLT 3	17.23		6	AC		
033504	MID DK FLDLT 4	17.23		6	AC		
033506	MID DK FLDLT 6	17.23	*	5	AC		
033507	MID DK FLDLT 7	17.23	*	6	AC		
033508	MID DK FLDLT 8	17.13	*	4	AC		
033701	MID DECK PANEL LT #1	6.89		6	AC		
033702	MID DECK PANEL LT #2	6.85		4	AC		
033800	WASTE MGT COMPARTMENT	17.13		4	AC		
034202	GLARSHLD FLDLT-LEFT	8.39	*	41	AC		
034203	GLARSHLD FLDLT-RGHT	8.38	*	42	AC		
035600	C-W ANNUN ASSY-OPR	0.14	*	41	AC		
037200	CICU - OPER	7.10	*	43	A1		
037301	ACA #1	13.98		16	AC		
037302	ACA #2/3	28.15		17	AC		
037303	ACA #4/5	25.18		18	AC		
037401	ANNUN 1	3.01		16	AC		
037402	ANNUN 2/3	5.60		17	AC		
037403	ANNUN 4/5	4.69		18	AC		
040301	PCM MASTER UNIT #1	55.00		30	W1		
040401	OPS-1 RECORDER-REPLY	16.75	*	28	W2		
040402	OPS-2 RECORDER-REPLY	55.19	*	29	W2		
040403	PAYLD RECORDER-REPLY	6.62	*	30	W1		
040501	DED SIG CND OF1 - FWD	22.80		19	W1		
040502	DED SIG CND OF2 - FWD	32.60		20	W2		
040503	DED SIG CND OF3 - FWD	26.80		20	W3		
040601	DED SIG CND OA1 - AFT	36.20		66	F4		
040602	DED SIG CND OA2 - AFT	29.10		67	F5		
040603	DED SIG CND OA3 - AFT	29.10		68	F6		
040900	MTU - OPER	31.35		43	W4		
041201	DSC OL1 OMS/RCS	23.30		78	OT		
041202	DSC OL2 OMS/RCS	21.40		80	OT		
041203	DSC OR1 OMS/RCS	23.30		78	OT		
041204	DSC OR2 OMS/RCS	21.40		79	OT		
041301	DSC OM1 MID FUS	13.90		19	OT		
041302	DSC OM2 MID FUS	22.10		19	OT		
041400	DSC OF4 FWD RCS	26.90		19	OT		
041601	WDRND S/C #1 (BAY4)	.41		63	OT		
041602	WDRND S/C #2 (BAY4)	.41		63	OT		
041603	WDRND S/C #3 (BAY4)	.41		63	OT		
041604	WDRND S/C #4 (BAY4)	.41		63	OT		
041701	WDRND S/C #1 (BAY5)	.41		64	OT		
041702	WDRND S/C #2 (BAY5)	.41		64	OT		
050100	PWR DIST ASSY FWD	10.84		12	DW		
050201	PWR DIST ASSY #1 MID	9.99		44	D1		
050202	PWR DIST ASSY #2 MID	9.99		44	D2		
050203	PWR DIST ASSY #3 MID	9.99		44	D3		
050301	PCM MASTER UNIT #1	55.00		24	DW		
050401	DSC FWD #1-SDF1	22.20		12	DW		
050402	DSC FWD #2-SDF2	22.20		12	DW		
050403	DSC FWD #3-SDF3	22.50		12	DW		
050501	DSC UNIT #1 - SDL1	16.60		44	D1		
050502	DSC UNIT #2 - SDL2	24.70		44	D1		
050503	DSC UNIT #3 - SDL3	16.60		44	D1		

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Figure 6.4-13. - Continued

050504	DSC UNIT #4 - SOL4	24.70		44	D1			
050505	DSC UNIT #5 - SOL5	46.70		44	D1			
050506	DSC UNIT #1 - SDR1	16.60		44	D2			
050507	DSC UNIT #2 - SDR2	24.70		44	D2			
050508	DSC UNIT #3 - SDR3	16.60		44	D2			
050509	DSC UNIT #4 - SDR4	46.80		44	D2			
050601	DSC UNIT #1 - SDC1	16.60		44	D3			
050602	DSC UNIT #2 - SDC2	23.90		44	D3			
050603	DSC UNIT #3 - SDC3	16.60		44	D3			
050604	DSC UNIT #4 - SDC4	17.70		44	D3			
050605	DSC UNIT #5 - SDC5	16.60		44	D3			
050701	WB FDM 1A (FMF1)-FWD	13.55	50.00	12	OW			
050702	WB FDM 1B (FMF1)-FWD	13.55	50.00	12	OW			
050820	FREON FLOW MTR-MID-LT1	2.05		47	D3			
050831	LOAD SEN ACCEL-1 FWD	3.80		12	OW			
050832	LOAD SEN ACCEL-2 FWD	3.80		12	OW			
050833	LOAD SEN ACCEL-MR 2	14.34		47	D2			
050834	LOAD SEN ACCEL-MR 2	10.76		48	D2			
050930	PCM RCDR-RECD-SERIAL	60.72		12	OW			
051011	WBSC FWD (A131)-100%	3.04		12	OW			
051132	WBSC LM3 (A145)-100%	3.87		47	D3			
051133	WBSC LM3 (A145)-100%	3.28		48	D3			
051501	SGSC FWD (A161)-100%	25.05		12	OW			
051502	SGSC FWD (A161)-100%	17.78		12	OW			
051611	SGSC HL1 (A162)-100%	95.04		47	D1			
051621	SGSC HL1 (A163)-100%	67.78		47	D1			
051624	SGSC HL1 (A163)-100%	7.89		48	D1			
051625	SGSC HL1 (A163)-100%	31.54		47	D1			
051631	SGSC HR2 (A164)-100%	117.44		48	D2			
051632	SGSC HR2 (A164)-100%	23.67		48	D2			
051641	SGSC HR2 (A165)-100%	106.27		48	D2			
051642	SGSC HR2 (A165)-100%	39.45		48	D2			
051651	SGSC HR2 (A169)-100%	72.76		48	D2			
051654	SGSC HR2 (A169)-100%	31.56		48	D2			
051661	SGSC HL3 (A166)-100%	78.29		48	D3			
051671	SGSC HL3 (A167)-100%	61.49		48	D3			
051673	SGSC HL3 (A167)-100%	23.67		48	D3			
051700	HDM DEF1 - FWD	53.90		12	OW			
051801	HDM DL1 - MID LEFT 1	50.00		44	D1			
051802	HDM DL2 - MID LEFT 1	50.20		44	D1			
051803	HDM DR1 - MID RIGHT 2	50.00		44	D2			
051804	HDM DR2 - MID RIGHT 2	52.80		44	D2			
051805	HDM DC1 - MID LEFT 3	49.10		44	D3			
051806	HDM DC2 - MID LEFT 3	52.50		44	D3			
051900	S-BAND FM XMITR-DFI	130.12		12	OW			
052201	ARS DEF1 SIGNAL COND	8.10		215	D1		6.208	
052300	ATCS DFI SIGNAL COND	1.96		217	OT			1.50A
052401	DFI FREON PUMP #1	306.01		201	D1	234.00		
052500	3-AXIS ACCEL	1.84		12	OT			
060901	GRND CMDS INTRFC UN A	29.30		33	M3			
061001	INV DIST+CTL ASY1-DC	.61		41	A1			
061002	INV DIST+CTL ASY1-AC	2.75		201	A1	2.10		
061003	INV DIST+CTL ASY2-DC	.61		42	A2			
061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10		
061005	INV DIST+CTL ASY3-DC	.61		43	A3			
061006	INV DIST+CTL ASY3-AC	2.75		203	A3			2.10
061701	CURR SENSOR-MIOBDY=1	3.54		7	OT			

Figure 6.4-13. - Continued

061702	CURR SENSOR-MIDBDY=2	3.56		8	OT
061703	CURR SENSOR-MIDBDY=3	3.56		9	OT
061704	CURR SENSOR-PL MN B	1.14		64	OT
061705	CURR SENSOR-PL MN C	1.14		65	OT
061706	CURR SENSOR-LH ADP	1.11		22	OT
061707	CURR SENSOR-LH ADP	1.11		23	OT
061708	CURR SENSOR-RH ADP	1.11		23	OT
061709	CURR SENSOR-RH ADP	1.11		23	OT
061801	H202 CRYO ASSY1A-QUESS	12.23		7	FM
061802	H202 CRYO ASSY1B-QUESS	12.23		8	FM
061811	H202 CRYO ASSY2A-QUESS	12.23		9	FM
061812	H202 CRYO ASSY2B-QUESS	12.23		9	FM
062101	MTR CNTL ASSY FWD=1	7.79	15.00	22	W1
062102	MTR CNTL ASSY FWD=2	7.79	12.50	23	W2
062103	MTR CNTL ASSY FWD=3	5.16	18.90	24	W3
062201	MTR CNTL ASSY MID=1	12.70	22.80	44	FM
062202	MTR CNTL ASSY MID=2	12.70	23.50	45	FM
062203	MTR CNTL ASSY MID=3	12.70	20.20	44	FM
062204	MTR CNTL ASSY MID=4	13.60	13.20	45	FM
062301	MTR CNTL ASSY AFT=1	9.72	20.00	63	F4
062302	MTR CNTL ASSY AFT=2	8.79	20.70	64	F5
062303	MTR CNTL ASSY AFT=3	15.84	30.60	65	F6
062401	LOAD CNTL ASSY FWD1	24.63	28.00	32	W1
062402	LOAD CNTL ASSY FWD2	26.91	30.61	33	W2
062403	LOAD CNTL ASSY FWD3	26.51	30.18	34	W3
062501	LOAD CNTL ASSY AFT1	73.69	35.61	84	FM
062502	LOAD CNTL ASSY AFT2	74.10	27.47	85	F5
062503	LOAD CNTL ASSY AFT3	81.38	34.81	86	F6
062601	PCA FWD=1	98.94	30.03	22	W1
062602	PCA FWD=2	41.91	12.65	23	W2
062603	PCA FWD=3	45.91	13.93	24	W3
062701	PCA MID=1	41.59	35.31	47	FM
062702	PCA MID=2	49.45	41.96	48	FM
062703	PCA MID=3	33.13	28.43	49	FM
062801	PCA AFT=1	30.46	34.55	72	F4
062802	PCA AFT=2	29.81	33.81	73	F5
062803	PCA AFT=3	27.13	30.85	74	F6
062804	PCA AFT=4	26.92	30.68	60	F4
062805	PCA AFT=5	31.55	35.86	61	F5
062806	PCA AFT=6	20.00	22.73	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	308.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	308.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	313.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	313.00	*	31	A2
070301	MCM FF1	58.90		28	W1
070302	MCM FF2	60.00		29	W2
070303	MCM FF3	55.50		50	L3
070304	MCM FF4	55.60		29	W2
070401	MCM FA1	54.80		66	F4
070402	MCM FA2	54.20		67	F5
070403	MCM FA3	55.60		68	F6

Figure 6.4-13. - Continued

070404	MDM FA4	56.20		68	F6
070901	MM =1 TAPE OPER	20.20	*	23	L1
070902	MM =2 TAPE OPER	20.20	*	23	L2
071001	MDM OFI 1	46.80		19	W1
071002	MDM OFI 2	46.80		19	W2
071003	MDM OFI 3	47.40		21	W3
071004	MDM OFI 4 FLT DECK	40.40		21	W4
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
075001	GPC CNTLR 1 PS A	7.19		31	A1
075002	GPC CNTLR 1 PS B	7.19		31	A1
075003	GPC CNTLR 2 PS A	7.19		31	A2
075004	GPC CNTLR 2 PS B	7.19		31	A2
075005	GPC CNTLR 3 PS A	7.19		31	A2
075006	GPC CNTLR 3 PS B	7.19		31	A2
203701	ENG 1 FASCOS SYS A	23.82		63	OT
203702	ENG 1 FASCOS SYS B	23.81		64	OT
203703	ENG 1 FASCOS SYS C	23.81		65	OT
203704	ENG 2 FASCOS SYS A	23.82		63	OT
203705	ENG 2 FASCOS SYS B	23.81		64	OT
203706	ENG 2 FASCOS SYS C	23.81		65	OT
203707	ENG 3 FASCOS SYS A	23.82		63	OT
203708	ENG 3 FASCOS SYS B	23.81		64	OT
203709	ENG 3 FASCOS SYS C	23.81		65	OT
210701	LP ACT GMBL INST/LOG	7.35		72	OT
210702	LP STB GMBL INST/LOG	7.35		73	OT
210703	RP ACT GMBL INST/LOG	7.33		74	OT
210704	RP STB GMBL INST/LOG	7.35		72	OT
211501	BIPROP VL1 LP POS ID	1.47		72	OT
211502	BIPROP VL2 LP POS ID	1.47		73	OT
211503	BIPROP VL1 RP POS ID	1.47		72	OT
211504	BIPROP VL2 RP POS ID	1.47		74	OT
212106	TK ISO/XFD VL TLKBACK	0.31		72	AC
212401	QUAN GAGE TOT-LP-OPR	9.57	*	78	OT
212402	QUAN GAGE TOT-RP-OPR	9.58	*	80	OT
215101	GSE SR PN HT A-43-LP	9.77		22.71	72
215102	ENG SR PN HT A-37-LP	10.71		16.61	72
215103	OME COVER HT A-53-LP	37.91		35.23	72
215104	Y-WB OTBD HT A-27-LP	26.86		24.96	72
215105	Y-WB INRD HT A-33-LP	23.03		21.40	72
215106	Y-WB UPR HT A-31-LP	6.06		5.63	72
215107	CT LN WB HT A1-21-LP	71.84		35.53	72
215108	CT LN WB HT A2-21-LP	75.64		35.53	72
215109	CT LN WB HT A3-21-LP	37.80		35.53	72
215111	CT LN WB HT A4-21-LP	77.53		35.53	72
215112	RCS HSNG HT A1-41-LP	22.71		19.20	72
215113	RCS HSNG HT A2-41-LP	19.60		19.20	72
215301	GSE SR PN HT A-44-RP	9.77		22.71	73
215302	ENG SR PN HT A-38-RP	10.71		16.61	73
215303	OME COVER HT A-54-RP	37.91		35.23	73
215304	Y-WB OTBD HT A-28-RP	26.86		24.96	73
215305	Y-WB INRD HT A-34-RP	23.03		21.40	73
215306	Y-WB UPR HT A-32-RP	6.06		5.63	73
215307	CT LN WB HT A1-22-RP	71.84		35.53	73

Figure 6.4-13. - Continued

215308	CT LN WB HT A2-22-RP	75.64	35.53	73	OT
215309	CT LN WB HT A3-22-RP	77.80	35.53	73	OT
215311	CT LN WB HT A4-22-RP	77.53	35.53	73	OT
215312	RCS HSNH HT A1-42-RP	22.71	19.20	73	OT
215313	RCS HSNH HT A2-42-RP	19.60	19.20	73	OT
217001	XFD OX/FU FLXL HTA=L	10.20	30.13	72	OT
217003	XFD OX/FU FLXL HTA=R	10.70	30.13	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217103	XFD OX/FU LNE HT-A-R	7.44	12.02	72	OT
217105	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HIPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HIPT BLDLN HT-A-M	6.74	27.75	72	OT
217301	OX HIPT BLDLN HT-A-A	4.65	30.80	72	OT
217303	OX HIPT BLDLN HT-A-M	6.98	28.71	72	OT
217401	LOPT OXFU DRLN HTA=L	1.40	17.66	72	OT
217403	LOPT OXFU DRLN HTA=R	1.40	17.66	72	OT
220101	FWD THRUSTER F1F(-X)	.11	.15	24	OT
220103	FWD THRUSTER F2F(-X)	.11	.15	24	OT
220105	FWD THRUSTER F3F(-X)	.11	.15	24	OT
220107	FWD THRUSTER F3L(+Y)	.11	.15	78	OT
220201	AFT THRUSTER R1R(-Y)	.14	.20	80	OT
220203	AFT THRUSTER R2R(-Y)	.14	.20	79	OT
220205	AFT THRUSTER R3R(-Y)	.14	.20	78	OT
220207	AFT THRUSTER L1L(+Y)	.14	.20	60	OT
220214	AFT THRUSTER L2L(+Y)	.14	.20	79	OT
220217	AFT THRUSTER L3L(+Y)	.14	.20	79	OT
225101	FWD RCS HT-ENG F1F-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.31	8	OT
225105	FWD RCS HT-ENG F2F-X	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.01	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3F-X	3.84	17.85	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.42	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.31	9	OT
225114	FWD RCS HT-ENG F4R-Y	1.58	7.33	9	OT
225115	FWD RCS HT-ENG F4D-Z	1.92	8.91	85	OT
225201	AFT RCS HT-ENG R1R-Y	.72	3.35	84	OT
225202	AFT RCS HT-ENG R2R-Y	.72	3.35	86	OT
225203	AFT RCS HT-ENG R3R-Y	.72	3.35	86	OT
225204	AFT RCS HT-ENG R4R-Y	.72	3.35	86	OT
225205	AFT RCS HT-ENG R2D-Z	.63	2.92	86	OT
225206	AFT RCS HT-ENG R3D-Z	.63	2.92	86	OT
225207	AFT RCS HT-ENG R4D-Z	.63	2.92	86	OT
225208	AFT RCS HT-ENG R1U+Z	1.07	4.98	85	OT
225209	AFT RCS HT-ENG R2U+Z	1.07	4.98	84	OT
225211	AFT RCS HT-ENG R4U+Z	1.07	4.98	86	OT
225212	AFT RCS HT-ENG R1A+X	1.07	3.31	85	OT
225213	AFT RCS HT-ENG R3A+X	2.37	7.34	86	OT
225301	AFT RCS HT-ENG L1L+Y	.72	3.35	85	OT
225302	AFT RCS HT-ENG L2L+Y	.72	3.35	84	OT
225303	AFT RCS HT-ENG L3L+Y	.72	3.35	86	OT
225304	AFT RCS HT-ENG L4L+Y	.72	3.35	86	OT
225305	AFT RCS HT-ENG L2D-Z	.63	2.92	84	OT

Figure 6.4-13. - Continued

225306	AFT RCS HT-ENG L3D-Z	.63	2.92	86	OT
225307	AFT RCS HT-ENG L40-Z	.63	2.92	86	OT
225308	AFT RCS HT-ENG L1U+Z	1.07	4.98	85	OT
225309	AFT RCS HT-ENG L2U+Z	1.07	4.98	84	OT
225311	AFT RCS HT-ENG L4U+Z	1.07	4.98	86	OT
225312	AFT RCS HT-ENG L1A+X	1.07	3.31	85	OT
225313	AFT RCS HT-ENG L3A+X	2.37	7.34	86	OT
225401	FWD VRN HT-ENG F5R	1.21	11.16	9	OT
225402	FWD VRN HT-ENG F5L	1.06	9.77	9	OT
225501	AFT VRN HT-ENG R5D-Z	.84	7.75	86	OT
225502	AFT VRN HT-ENG R5R-Y	3.95	36.60	86	OT
225503	AFT VRN HT-ENG L5D-Z	.84	7.75	86	OT
225504	AFT VRN HT-ENG L5L+Y	3.95	36.60	47	OT
300201	FCP -1 O2 FLOWMETER	6.35		48	OT
300202	FCP -2 O2 FLOWMETER	6.46		49	OT
300203	FCP -3 O2 FLOWMETER	6.50		47	OT
300301	FCP -1 H2 FLOWMETER	6.35		48	OT
300302	FCP -2 H2 FLOWMETER	6.46		49	OT
300303	FCP -3 H2 FLOWMETER	6.50		38	OT
300401	FCP1 EL CTL-ORBT	5.11		39	OT
300402	FCP2 EL CTL-ORBT	5.10		40	OT
300403	FCP3 EL CTL-ORBT	5.01		201	OT
300501	FCP1 PMP+H2O SENSOR	236.04		202	OT
300502	FCP2 PMP+H2O SENSOR	236.34		203	OT
300503	FCP3 PMP+H2O SENSOR	239.87		47	OT
305301	H2O VENT LN HTR A	.44	5.00	47	OT
305401	FCP1 H2O RLF VL HT A	.17	5.08	47	OT
305402	FCP2 H2O RLF VL HT A	.17	5.08	47	OT
305403	FCP3 H2O RLF VL HT A	.17	5.08	49	OT
305601	H2O NOZ-BARREL HTR B	2.84	49.83	49	OT
305702	H2O NOZ ORIFICE HT B	23.99	49.98	42	OT
310301	O2 INK1 SIG COND QTY	2.34		42	OT
310302	H2 INK1 SIG COND QTY	2.34		41	OT
310303	O2 INK2 SIG COND QTY	2.34		41	OT
310304	H2 INK2 SIG COND QTY	2.54		66	F4
320301	APU1 CNTLR-OPERATE	7.06		67	F5
320302	APU2 CNTLR-OPERATE	7.06		68	F6
320303	APU3 CNTLR-OPERATE	7.06		84	OT
325201	FUEL FEEDLINE HTR 1A	12.95	19.13	85	OT
325202	FUEL FEEDLINE HTR 2A	15.65	19.32	85	OT
325203	FUEL FEEDLINE HTR 3A	10.47	21.94	86	OT
325301	FUEL SERVLN HTR 1A	12.33	18.11	84	OT
325302	FUEL SERVLN HTR 2A	9.05	18.97	85	OT
325303	FUEL SERVLN HTR 3A	11.16	17.31	86	OT
325401	FUEL DRN LINE HTR 1A	7.79	18.96	84	OT
325402	FUEL DRN LINE HTR 2A	10.12	18.98	85	OT
325403	FUEL DRN LINE HTR 3A	5.58	17.07	86	OT
325405	TURB GAS GEN HTR 1A	32.79	57.73	84	OT
325601	TURB GAS GEN HTR 2A	32.79	57.73	85	OT
325602	TURB GAS GEN HTR 3A	32.79	57.73	86	OT
325701	OIL LINE HTR 1A	10.95	15.94	84	OT
325702	OIL LINE HTR 2A	11.37	16.02	85	OT
325703	OIL LINE HTR 3A	11.63	16.38	86	OT
325705	OIL LINE HTR 1A	9.90	35.00	75	OT
325801	APU 1 PRI H2O HTR 1A	2.87	35.00	76	OT
325803	APU 2 PRI H2O HTR 1A	9.38	35.00	77	OT
325805	APU 3 PRI H2O HTR 1A	10.53	35.00	75	OT
325901	APU 1 SEC H2O HTR 2A				

Figure 6.4-13. - Continued

325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT			
325905	APU 1 SEC H2O HTR 2A	4.79	35.00	77	OT			
326301	GG H2O TK LN HT 504A	4.37	35.00	75	OT			
326303	GG H2O TK LN HT 503A	7.94	35.00	77	OT			
400101	CABIN FAN A	645.75		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	
400600	ARS HUM SEP SIG CND	2.35		217	AC			1.80A
400701	PP02 CNTRLR-SYS 1	.76		16	AC			
400702	PP02 CNTRLR-SYS 2	.76		17	AC			
400711	O2 CONTROL VLV-SYS 1	5.09	50.00	16	AC			
400731	CABIN PRESS SENSOR	.76		16	AC			
400732	CAB PRES DECAY SENSR	2.17		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.08		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.09		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.08		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.09		17	AC			
400761	PP02 SENSOR-SYS 1	.87		16	AC			
400762	PP02 SENSOR-SYS 2	.87		17	AC			
400763	PP02 SENSOR-SYS 3	.87		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.70		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC			2.40B
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.50B	
401001	SNOKE DT SNR-L FLT D	7.04		16	OT			
401002	SNOKE DT SNR-R FLT D	7.04		16	OT			
401003	S D SNR A - BAY 1	7.07		18	OT			
401004	S D SNR B - BAY 1	7.06		17	OT			
401005	S D SNR A - BAY 2	7.04		16	OT			
401006	S D SNR B - BAY 2	7.07		18	OT			
401007	S D SNR A - BAY 3	7.06		17	OT			
401008	S D SNR B - BAY 3	7.04		16	OT			
401009	S D SNR - CABIN	7.07		18	OT			
401102	IMU FAN B	63.53		202	NC		48.60	
401200	IMU FAN SIG COND	2.35		218	AC			1.80B
401303	H2O PUMP - LOOP 2	250.72		203	WC			191.80
401501	H2O BYPASS CN SC-PRI	7.71		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.72		211	AC	5.90A		
401600	SOL COL SLINGR	62.28		4	AC			
401701	WTR SEP WASTE SYS 1	261.54		201	AC	200.00		
402901	FRFON PMP LP 1-A ASC	476.01	*	201	FP	374.00		
402903	CREON PMP LP 2-A ASC	475.82	*	203	FP			374.00
403001	RAD FLOW CNTRLR A-LP1	2.17		17	OT			
403002	RD FL CTR A-LP1 FALT	1.63		17	OT			
403004	RD FL CTR B-LP1 FALT	1.63		16	OT			
403101	RAD FLOW CNTRLR A-LP2	2.17		17	OT			
403102	RD FL CTR A-LP2 FALT	1.63		17	OT			
403104	RD FL CTR B-LP2 FALT	1.63		16	OT			
403201	RAD FL CNTRL VLV-LP 1	6.08		17	OT			
403202	RAD FL CNTRL VLV-LP 2	6.08		17	OT			
403601	FRFON COOL LP1 INSTR	6.54		215	OT	5.00B		
403602	FRFON COOL LP2 INSTR	6.54		218	OT			5.00B
403701	FES CONTROLLER PRI A	7.99		86	OT			

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Figure 6.4-13. - Continued

403901	FES TOP'G PLSR V-PRI	8.23	27.00	89	OT			
403921	TPMG V HLONG COTIL BA	8.12	80.00	89	OT			
406000	VACUUM VNT NOZ HTR	11.40		5	OT			
408101	PRI FWTR LN HTA-TS5	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS2	1.52	14.26	84	OT			
408105	PRI FWTR LN HTA-TS7	7.05	15.16	47	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	84	OT			
408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408203	SEC FWTR LN HTA-TS12	2.87	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	6.43	18.46	49	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	86	OT			
409001	TOP'G DUCT HTR1 SEC1	46.53	12.28	47	OT			
409101	TOP'G DUCT HTR1 SEC2	116.26	24.81	47	OT			
409201	TOP'G DUCT HTR1 SEC3	26.30	41.88	84	OT			
409301	TOP'G DUCT HTR1 SEC4	26.30	40.59	84	OT			
409401	SONIC LFT NOZ HTR 1A	11.25	45.02	85	OT			
409501	SONIC RHT NOZ HTR 2A	11.12	45.02	85	OT			
000601	RESVOIR -1 VOL SWSR	1.83		21	OT	1.40B		
000602	RESVOIR -2 VOL SWSR	1.83		21	OT		1.40B	
000803	RESVOIR -3 VOL SWSR	1.83		21	OT			1.40B
003701	H2O BLR1 CNT LOGIC A	4.71		21	OT	3.00C		3.60A
003703	H2O BLR2 CNT LOGIC A	3.22		21	OT		2.90A	
003705	H2O BLR3 CNT LOGIC A	3.79		21	OT			
003801	H2O BOILER 1 CNTL A	8.32		63	OT			
003803	H2O BOILER 2 CNTL A	7.72		63	OT			
003805	H2O BOILER 3 CNTL A	8.51		63	OT			
505301	WSB TK/BOILER HTR 1A	6.05	3.81	63	OT			
505303	WSB TK/BOILER HTR 2A	8.38	5.42	63	OT			
505305	WSB TK/BOILER HTR 3A	7.67	4.83	63	OT			
505401	WSB VENT NO2Z HTR 1A	71.60		63	OT			
505403	WSB VENT NO2Z HTR 2A	61.50		63	OT			
505405	WSB VENT NO2Z HTR 3A	59.10		63	OT			
		TOTAL INVERTER WATTS =		1871.59		1061.90	1696.11	
		TOTAL 3 PHASE WATTS =		1158.60		521.00	1245.40	
		TOTAL A PHASE WATTS =		200.90		155.80	12.80	
		TOTAL B PHASE WATTS =		201.40		175.60	68.40	
		TOTAL C PHASE WATTS =		3.00		.00	.00	

Figure 6.4-13. - Concluded

TOTAL WATTS - 16354.24
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 047:15:00.0

Figure 6.4-14.- Vehicle configuration at 2 days 1 minute 4 seconds (Deorbit TIG-5 hours 30 minutes)

LISTING OF ALL ACTIVE COMPONENTS AT TIME 048:01:04.1

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-14. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	119.63			28	WC			
010102	IMU =2 OPERATE	119.64	*		29	WC			
010103	IMU =3 OPERATE	119.63	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.62			17	OT			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011011	ASA 1 ACTUATORS-OPER	16.52	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	16.52	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	16.52	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.52	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	13.20			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	13.20			79	F6			
011301	RGA =1 OPR	24.86	*		78	FA			
011302	RGA =2 OPR	25.14	*		64	FA			
011303	RGA =3 OPR	25.15	*		49	FA			
011304	RGA =4 OPR	24.91	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	RHC-LH	3.18			19	AC			
011701	RHC-LH	4.83			18	AC			
011702	RHC-RH	4.84			20	AC			
011801	RPTA-LH	1.23			19	AC			
011802	RPTA-RH	1.24			20	AC			
011901	SBTC-LH	1.64			18	AC			
011902	SBTC-RH	1.65			20	AC			
020802	NTWK SIG PROCESSOR 2	28.76			34	U3			
021101	S-BAND FM XMITR =1	10.68		15.00	33	U3			
021200	S-BAND FM SIG PRG=ORU	.76		15.00	36	U3			
021302	S-BAND XPNDR=2-DIRECT	59.87	*		34	U3			
021600	S-RND ANT SW ASSY-QES	.56	*		33	A1			
021701	TACAN =1 SEARCH	209.15	*		213	A1	160.00C		
021702	TACAN =2 SEARCH	209.15	*		216	A2		160.00C	
021703	TACAN =3 SEARCH	211.21	*		219	A3			160.00C
021901	MSBLS DCDR ASSY=1	56.65			16	A1			
021902	MSBLS DCDR ASSY =2	58.90			17	A2			
021903	MSBLS DCDR ASSY =3	54.64			18	A2			
022001	MSBLS RF ASSY =1	15.78			16	A1			
022002	MSBLS RF ASSY =2	16.59			17	A2			
022003	MSBLS RF ASSY =3	15.43			18	A2			

Figure 6.4-14. - Continued

022101	RADAR ALTIMETER =1	23.87		16	W1	
022102	RADAR ALTIMETER =2	23.85		17	W2	
024101	AUDIO CENTER 1	39.42		42	W1	
024201	AUDIO TERM UN-PLT RT	3.45		42	AC	
024202	AUDIO TERM UN-CDR LT	3.45		41	AC	
024203	AUDIO TERM UNIT-MSS	3.52		10	AC	
024204	AUDIO TERM UNIT-PS	3.69		15	AC	
024701	SPKR MIKE UNIT -OS	1.77	80.00	10	AC	
024702	SPKR MIKE UNIT-MID DK	1.78	80.00	11	AC	
024910	MULTIPLE HDSEY ADPTR	7.69		41	AC	
028101	TV CAM HTR-FWD PLB	7.96	40.00	11	OT	
028102	TV CAM HTR-AFT PLB	7.96	40.00	10	OT	
028105	TV CAM HTR-KEEL BAY	7.96	40.00	15	OT	
028201	PAN TLT HTR-FWD BAY	3.28	40.00	11	OT	
028202	PAN TLT HTR-AFT BAY	3.28	40.00	10	OT	
028203	PAN TLT HTR-KEEL BAY	3.28	40.00	15	OT	
030101	ADT =1 FWD LH	17.56		19	AC	
030102	ADT =2 FWD RH	17.60		20	AC	
030201	HST =1	27.70		16	AC	
030202	HST =2	27.69		17	AC	
030301	AMT =1	7.26		16	AC	
030302	AMT =2	7.26		17	AC	
030401	ALPHA MACH EL UNIT 1	32.58		16	HX	
030402	ALPHA MACH EL UNIT 2	32.56		17	HX	
030501	AVVI =1	7.26		16	AC	
030502	AVVI =2	7.26		17	AC	
030601	ALT VER VEL EL UN =1	25.53		16	HX	
030602	ALT VER VEL EL UN =2	25.51		17	HX	
030705	TAPE MTR M1(HYD PR)	9.33		17	AC	
030706	TAPE MTR M2(HYD QTY)	9.33		17	AC	
030707	TAPE MTR M3(APU)	9.33		17	AC	
030708	TAPE MTR M4(APU OIL)	6.22		17	AC	
031300	SPI	17.40		16	AC	
031400	OMS/RCS PROP QTY IND	4.86		18	AC	
031501	C-W PWR SUP A-STBY	21.12		41	A3	
031502	C-W PWR SUP B-STBY	13.40		42	A3	
031701	MISSION TIMER =1 FWD	3.63		16	AC	
031702	MISSION TIMER =2 AFT	3.73		17	AC	
031801	EVENT TIMER =1 FWD	3.11		17	AC	
031802	EVENT TIMER =2 AFT	3.11		16	AC	
032201	DDU =1 FWD LH	120.00		19	HX	
032202	DDU =2 FWD RH	120.00		20	HX	
032701	CRT DU =1 - LF	87.47		22	HX	
032702	CRT DU =2 - RF	87.47		23	HX	
032703	CRT DU =3 - CF	87.46		24	HX	
032801	DEU =1	202.00		22	HX	
032802	DEU =2	202.00		23	HX	
032803	DEU =3	202.00		24	HX	
033101	PANEL LTS - LEFT/CTR	255.25		211	AC	195.00A
033102	PANEL LTS - LEFT/OVHD	231.37		212	AC	177.00B
033103	PANEL LIGHTS - RIGHT	116.48	67.00	215	AC	133.00B
033107	PANEL LTS - RHT/OVHD	172.55		214	AC	132.00A
033201	INSTR LTS - LEFT/CTR	75.56		218	AC	57.80B
033202	INSTR LTS - OVERHEAD	35.95		215	AC	27.50B
033203	INSTR LTS - RIGHT	65.05		211	AC	49.70A
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.50B
033701	MID DECK PANEL LT =1	6.68		6	AC	

Figure 6.4-14. - Continued

033702	MID DECK PANEL LT =2	6.64		4	AC
034202	GLARSHLD FLDLT-LEFT	8.14	*	41	AC
034203	GLARSHLD FLDLT-RGHT	8.13	*	42	AC
034205	RHT OVERHEAD FLDLT A	23.46		18	AC
035600	C+W ANNUN ASSY-OPR	7.90	*	41	AC
037200	CICU - OPR	6.89	*	43	A1
037301	ACA =1	13.39		16	AC
037302	ACA =2/3	26.90		17	AC
037303	ACA =4/5	24.15		18	AC
037401	ANNUN 1	2.88		16	AF
037402	ANNUN 2/3	5.35		17	AC
037403	ANNUN 4/5	4.50		18	AC
040301	PCM MASTER UNIT =1	55.00		30	W1
040401	OPS-1 RECORDER-REPLY	16.12	*	28	W2
040402	OPS-2 RECORDER-REPLY	53.11	*	29	W2
040501	DED SIG CND OF1- FWD	22.80		19	W1
040502	DED SIG CND OF2- FWD	22.60		20	W2
040503	DED SIG CND OF3- FWD	26.80		20	W3
040601	DED SIG CND OA1- AFT	36.20		66	F4
040602	DED SIG CND OA2- AFT	29.10		67	FS
040603	DED SIG CND OA3- AFT	29.10		68	F6
040500	MTU - OPR	30.92		43	W4
041201	DSC OL1 OMS/RCS	23.30		78	OT
041202	DSC OL2 OMS/RCS	21.40		80	OT
041203	DSC OR1 OMS/RCS	23.30		78	OT
041204	DSC OR2 OMS/RCS	21.40		79	OT
041301	DSC OM1 MID FUS	13.90		19	OT
041302	DSC OM2 MID FUS	22.10		19	OT
041400	DSC OF4 FWD RCS	26.90		63	OT
041601	WDRND S/C =1 (BAY4)	.40		63	OT
041602	WDRND S/C =2 (BAY4)	.40		63	OT
041603	WDRND S/C =3 (BAY4)	.40		63	OT
041604	WDRND S/C =4 (BAY4)	.40		64	OT
041701	WDRND S/C =1 (BAY5)	.40		64	OT
041702	WDRND S/C =2 (BAY5)	.40		64	OT
050100	PWR DIST ASSY FWD	10.51		12	DW
050201	PWR DIST ASSY =1 MID	9.70		44	D1
050202	PWR DIST ASSY =2 MID	9.70		44	D2
050203	PWR DIST ASSY =3 MID	9.70		44	D3
050301	PCM MASTER UNIT =1	55.00		24	DW
050401	DSC FWD =1-SDF1	22.20		12	DW
050402	DSC FWD =2-SDF2	22.20		12	DW
050403	DSC FWD =3-SDF3	22.50		12	DW
050501	DSC UNIT #1 - SDL1	16.60		44	D1
050502	DSC UNIT #2 - SDL2	24.70		44	D1
050503	DSC UNIT #3 - SDL3	16.60		44	D1
050504	DSC UNIT #4 - SDL4	24.70		44	D1
050505	DSC UNIT #5 - SDL5	46.70		44	D1
050506	DSC UNIT #1 - SDR1	16.60		44	D2
050507	DSC UNIT #2 - SDR2	24.70		44	D2
050508	DSC UNIT #3 - SDR3	16.60		44	D2
050509	DSC UNIT #4 - SDR4	46.80		44	D2
050601	DSC UNIT #1 - SDC1	16.60		44	D3
050602	DSC UNIT #2 - SDC2	23.90		44	D3
050603	DSC UNIT #3 - SDC3	16.60		44	D3
050604	DSC UNIT #4 - SDC4	17.70		44	D3
050605	DSC UNIT #5 - SDC5	16.60		44	D3

Figure 6.4-14. - Continued

050701	WB FDM 1A (EMF11)-FWD	13.14	50.00	12	DW
050702	WB FDM 1A (EMF11)-FWD	13.14	50.00	12	DW
050820	FREON FLOMTR-MID LT3	1.98		47	D3
050831	LOAD SEN ACCEL -1 FWD	3.68		12	DW
050832	LOAD SEN ACCEL -2 FWD	3.68		12	DW
050833	LOAD SEN ACCEL -MR 2	13.89		47	D2
050834	LOAD SEN ACCEL -MR 3	10.44		48	D2
050930	PCM RCDR-RECD-SERIAL	58.88	*	12	DW
051011	WBSC FWD (A1311)-100%	22.94		12	DW
051332	WBSC LM3 (A1451)-100%	22.78		47	D3
051333	WBSC LM3 (A1451)-100%	3.18		48	D3
051501	SGSC FWD (A1611)-100%	24.29		12	DW
051502	SGSC FWD (A1611)-100%	17.24		12	DW
051611	SGSC ML1 (A1621)-100%	92.04		47	D1
051621	SGSC ML1 (A1631)-100%	64.97		47	D1
051624	SGSC ML1 (A1631)-100%	7.66		48	D1
051625	SGSC ML1 (A1631)-100%	30.55		47	D1
051631	SGSC MR2 (A1641)-100%	113.97		48	D2
051632	SGSC MR2 (A1641)-100%	22.97		48	D2
051641	SGSC MR2 (A1651)-100%	103.13		48	D2
051642	SGSC MR2 (A1651)-100%	38.29		48	D2
051661	SGSC MR2 (A1691)-100%	70.61		48	D2
051654	SGSC MR2 (A1691)-100%	30.63		48	D2
051661	SGSC ML3 (A1661)-100%	75.98		48	D3
051671	SGSC ML3 (A1671)-100%	59.67		48	D3
051673	SGSC ML3 (A1671)-100%	22.97		48	D3
051700	MDM DF1 - FWD	53.90		12	DW
051801	MDM DL1 - MID LEFT 1	50.00		44	D1
051802	MDM DL2 - MID LEFT 1	50.00		44	D1
051803	MDM DR1 - MID RIGHT 2	50.00		44	D2
051804	MDM DR2 - MID RIGHT 2	52.80		44	D2
051805	MDM DC1 - MID LEFT 3	49.10		44	D3
051806	MDM DC2 - MID LEFT 3	52.50		44	D3
051900	S-RAND FM XMTR-DF1	126.17		12	DW
052200	ARS DF1 SIGNAL COND	8.10		215	OT
052300	ATCS DF1 SIGNAL COND	1.96		217	OT
052401	DF1 FREON PUMP #1	306.03		201	D1
052500	1-AXIS ACCEL	1.72		12	OT
060901	GRND CMDS INTFC UN A	28.22		33	W3
061001	INV DIST-CTL ASY1-DC	1.59		41	A1
061002	INV DIST-CTL ASY1-AC	2.75		201	A1
061003	INV DIST-CTL ASY2-DC	1.59		42	A2
061004	INV DIST-CTL ASY2-AC	2.75		202	A2
061005	INV DIST-CTL ASY3-DC	1.59		43	A3
061006	INV DIST-CTL ASY3-AC	2.76		203	A3
061701	CURR SENSOR-MIDBDY=1	3.42		7	OT
061702	CURR SENSOR-MIDBDY=2	3.44		8	OT
061703	CURR SENSOR-MIDBDY=3	3.45		9	OT
061704	CURR SENSOR-PL MN B	1.09		64	OT
061705	CURR SENSOR-PL MN C	1.09		65	OT
061706	CUPR SENSOR-LH ADP	1.07		22	OT
061707	CUPR SENSOR-LH ADP	1.07		23	OT
061708	CUPR SENSOR-RH ADP	1.07		23	OT
061709	CUPR SENSOR-RH ADP	1.07		23	OT
061801	H202 CRYO ASY1A-QUES	11.88		7	FM
061802	H202 CRYO ASY1B-QUES	11.96		7	FM
061803	H202 CRYO ASY1A-H2CY	6.64		7	FM

Figure 6.4-14. - Continued

061804	H202 CRYO ASSY1B-H2CY	6.69		9	FM
061811	H202 CRYO ASSY2A-QUES	11.96		9	FM
061812	H202 CRYO ASSY2D-QUES	11.96		9	FM
061813	H202 CRYO ASSY2A-H2CY	6.69		8	FM
061814	H202 CRYO ASSY2D-H2CY	6.69		9	FM
062101	MTR CNTL ASSY FWD =1	3.94	15.00	22	W1
062102	MTR CNTL ASSY FWD =2	3.64	12.50	23	W3
062103	MTR CNTL ASSY FWD =3	4.96	18.90	24	W3
062201	MTR CNTL ASSY MID =1	11.94	22.80	44	FM
062202	MTR CNTL ASSY MID =2	12.39	13.50	45	FM
062203	MTR CNTL ASSY MID =3	10.38	20.20	44	FM
062204	MTR CNTL ASSY MID =4	12.24	13.20	45	FM
062301	MTR CNTL ASSY AFT =1	8.96	20.00	63	FS
062302	MTR CNTL ASSY AFT =2	8.45	20.70	64	FS
062303	MTR CNTL ASSY AFT =3	15.22	30.60	65	F6
062401	LOAD CNTL ASSY FWD1	23.72	28.00	32	W1
062402	LOAD CNTL ASSY FWD2	25.91	30.61	33	W2
062403	LOAD CNTL ASSY FWD3	25.53	30.10	34	W3
062501	LOAD CNTL ASSY AFT1	71.06	25.61	84	F4
062502	LOAD CNTL ASSY AFT2	71.46	27.47	85	F5
062503	LOAD CNTL ASSY AFT3	78.46	34.81	86	F6
062601	PCA FWD =1	40.21	30.03	22	W1
062602	PCA FWD =2	40.10	12.65	23	W2
062603	PCA FWD =3	44.16	13.93	24	W3
062701	PCA MID =1	40.28	35.31	47	FM
062702	PCA MID =2	47.99	41.96	48	FM
062703	PCA MID =3	32.65	28.43	49	FM
062801	PCA AFT =1	29.23	34.55	72	F4
062802	PCA AFT =2	28.61	33.81	73	F5
062803	PCA AFT =3	26.10	30.85	74	F6
062804	PCA AFT =4	25.98	30.68	60	F4
062805	PCA AFT =5	30.36	35.86	61	F5
062806	PCA AFT =6	19.24	22.73	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	308.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	308.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	313.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	313.00	*	31	A2
070301	HDM FF1	58.90		28	W1
070302	HDM FF2	60.00		29	W2
070303	HDM FF3	55.50		30	W3
070304	HDM FF4	58.60		29	W2
070401	HDM FA1	54.80		66	F4
070402	HDM FA2	54.20		67	F5
070403	HDM FA3	55.60		68	F6
070404	HDM FA4	56.20		68	F6
070901	MM =1 TAPE OPER	19.44	*	22	W1
070902	MM =2 TAPE OPER	19.44	*	23	W2
071001	HDM OFI 1	46.80		19	W1
071002	HDM OFI 2	46.80		19	W2
071003	HDM OFI 3	47.40		21	W3
071004	HDM OFI 4 FLT DECK	40.40		21	MC

Figure 6.4-14. - Continued

071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		69	W1
071402	MDM PL 2	56.90		70	W2
075001	GPC CNTLR 1 PS A	6.92		71	A1
075002	GPC CNTLR 1 PS B	6.92		72	A1
075003	GPC CNTLR 2 PS A	6.92		73	A2
075004	GPC CNTLR 2 PS B	6.92		74	A2
075005	GPC CNTLR 3 PS A	6.92		75	A2
075006	GPC CNTLR 3 PS B	1.33		76	A2
203701	ENG 1 FASCOS SYS A	22.89		77	OT
203702	ENG 1 FASCOS SYS B	22.89		78	OT
203703	ENG 1 FASCOS SYS C	22.88		79	OT
203704	ENG 2 FASCOS SYS A	22.89		80	OT
203705	ENG 2 FASCOS SYS B	22.89		81	OT
203706	ENG 2 FASCOS SYS C	22.88		82	OT
203707	ENG 3 FASCOS SYS A	22.89		83	OT
203708	ENG 3 FASCOS SYS B	22.89		84	OT
203709	ENG 3 FASCOS SYS C	22.88		85	OT
210701	LP ACT GMBL INST/LOG	7.05		86	OT
210702	LP STB GMBL INST/LOG	7.05		87	OT
210703	RP ACT GMBL INST/LOG	7.05		88	OT
210704	RP STB GMBL INST/LOG	7.05		89	OT
211501	BIPROP VL1 LP POS ID	1.41		90	OT
211502	BIPROP VL2 LP POS ID	1.41		91	OT
211503	BIPROP VL1 RP POS ID	1.41		92	OT
211504	BIPROP VL2 RP POS ID	1.41		93	OT
212106	TK ISO/XFD VL TLKBC	9.30		94	AC
212401	QUAN GAGE TOT-LP-QPR	9.22		95	OT
212402	QUAN GAGE TOT-RP-QPR	9.22		96	OT
215101	GSE SR PN HT A-43-LP	9.77	22.71	97	OT
215102	ENG SR PN HT A-37-LP	10.71	16.61	98	OT
215103	OME COVER HT A-53-LP	37.91	35.23	99	OT
215104	Y-WB OTBD HT A-27-LP	26.86	24.96	100	OT
215105	Y-WB INBD HT A-33-LP	23.03	21.40	101	OT
215106	Y-WB UPR HT A-31-LP	6.06	5.63	102	OT
215107	CT LN WB HT A1-21-LP	71.84	35.53	103	OT
215108	CT LN WB HT A2-21-LP	75.64	35.53	104	OT
215109	CT LN WB HT A3-21-LP	37.80	35.53	105	OT
215111	CT LN WB HT A4-21-LP	77.53	35.53	106	OT
215112	RCS HSNG HT A1-41-LP	22.71	19.20	107	OT
215113	RCS HSNG HT A2-41-LP	19.60	19.20	108	OT
215301	GSE SR PN HT A-44-RP	9.77	22.71	109	OT
215302	ENG SR PN HT A-38-RP	10.71	16.61	110	OT
215303	OME COVER HT A-54-RP	37.91	35.23	111	OT
215304	Y-WB OTBD HT A-28-RP	26.86	24.96	112	OT
215305	Y-WB INED HT A-34-RP	23.03	21.40	113	OT
215306	Y-WB UPR HT A-32-RP	6.06	5.63	114	OT
215307	CT LN WB HT A1-22-RP	71.84	35.53	115	OT
215308	CT LN WB HT A2-22-RP	75.64	35.53	116	OT
215309	CT LN WB HT A3-22-RP	37.80	35.53	117	OT
215311	CT LN WB HT A4-22-RP	77.53	35.53	118	OT
215312	RCS HSNG HT A1-42-RP	22.71	19.20	119	OT
215313	RCS HSNG HT A2-42-RP	19.60	19.20	120	OT
217001	XFD OX/FU FLXL HTA-L	10.70	30.13	121	OT
217003	XFD OX/FU FLXL HTA-R	10.70	30.13	122	OT

Figure 6.4-14. - Continued

217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217101	XFD OX/FU LNE HT-A-B	7.44	12.02	72	OT
217105	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HIPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HIPT BLDLN HT-A-M	6.74	27.75	72	OT
217301	OX HIPT BLDLN HT-A-A	4.65	30.80	72	OT
217303	OX HIPT BLDLN HT-A-M	6.98	28.71	72	OT
217401	LOPT OXFU DRLN HTA-L	1.40	17.66	72	OT
217403	LOPT OXFU DRLN HTA-R	1.40	17.66	72	OT
220101	FWD THRUSTER F1F1-X	.10	.15	23	OT
220105	FWD THRUSTER F2F1-X	.10	.15	24	OT
220109	FWD THRUSTER F3F1-X	.10	.15	24	OT
220111	FWD THRUSTER F3L1+Y	.10	.15	24	OT
220201	AFT THRUSTER R1R1-Y	.14	.20	78	OT
220204	AFT THRUSTER R2R1-Y	.14	.20	80	OT
220207	AFT THRUSTER R3R1-Y	.14	.20	79	OT
220214	AFT THRUSTER L1L1+Y	.14	.20	78	OT
220217	AFT THRUSTER L2L1+Y	.14	.20	80	OT
220221	AFT THRUSTER L3L1+Y	.14	.20	79	OT
225101	FWD RCS HT-ENG F1F-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.84	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT
225105	FWD RCS HT-ENG F2F-X	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.01	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3F-X	3.84	17.85	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.42	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.91	8	OT
225114	FWD RCS HT-ENG F4R-Y	1.58	7.33	9	OT
225115	FWD RCS HT-ENG F4D-Z	1.92	8.91	9	OT
225201	AFT RCS HT-ENG R1R-X	.72	.72	85	OT
225202	AFT RCS HT-ENG R2R-Y	.72	.72	84	OT
225203	AFT RCS HT-ENG R3R-Y	.72	.72	86	OT
225204	AFT RCS HT-ENG R4R-Y	.72	.72	86	OT
225205	AFT RCS HT-ENG R2D-Z	.63	2.92	84	OT
225206	AFT RCS HT-ENG R3D-Z	.63	2.92	86	OT
225207	AFT RCS HT-ENG R4D-Z	.63	2.92	85	OT
225208	AFT RCS HT-ENG R1U+Z	1.07	4.98	84	OT
225209	AFT RCS HT-ENG R2U+Z	1.07	4.98	86	OT
225211	AFT RCS HT-ENG R4U+Z	1.07	4.98	85	OT
225212	AFT RCS HT-ENG R1A+X	1.07	4.98	86	OT
225213	AFT RCS HT-ENG R3A+X	2.37	7.34	85	OT
225301	AFT RCS HT-ENG L1L+Y	.72	.72	84	OT
225302	AFT RCS HT-ENG L2L+Y	.72	.72	86	OT
225303	AFT RCS HT-ENG L3L+Y	.72	.72	86	OT
225304	AFT RCS HT-ENG L4L+Y	.72	.72	86	OT
225305	AFT RCS HT-ENG L2D-Z	.63	2.92	84	OT
225306	AFT RCS HT-ENG L3D-Z	.63	2.92	86	OT
225307	AFT RCS HT-ENG L4D-Z	.63	2.92	85	OT
225308	AFT RCS HT-ENG L1U+Z	1.07	4.98	84	OT
225309	AFT RCS HT-ENG L2U+Z	1.07	4.98	86	OT
225311	AFT RCS HT-ENG L4U+Z	1.07	4.98	85	OT
225312	AFT RCS HT-ENG L1A+X	1.07	4.98	86	OT
225313	AFT RCS HT-ENG L3A+X	2.37	7.34	86	OT

Figure 6.4-14. - Continued

225401	FWD VRN HT-ENG FSR	1.21	11.16	9	OT			
225402	FWD VRN HT-ENG FSL	1.86	0.17	9	OT			
225501	AFT VRN HT-ENG RSD-Z	3.95	7.75	86	OT			
225502	AFT VRN HT-ENG RSD-Y	3.95	36.60	86	OT			
225503	AFT VRN HT-ENG LSD-Z	3.95	7.75	86	OT			
225504	AFT VRN HT-ENG LSL-Y	3.95	36.60	86	OT			
300201	FCP1-1 O2 FLOWMETER	66.17		47	OT			
300202	FCP1-2 O2 FLOWMETER	66.27		48	OT			
300203	FCP1-3 O2 FLOWMETER	66.29		49	OT			
300301	FCP1-1 H2 FLOWMETER	66.15		47	OT			
300302	FCP1-2 H2 FLOWMETER	66.27		48	OT			
300303	FCP1-3 H2 FLOWMETER	66.29		49	OT			
300401	FCP1 EL CTL-ORBT	44.93		38	OT			
300402	FCP2 EL CTL-ORBT	44.92		39	OT			
300403	FCP3 EL CTL-ORBT	44.83		40	OT			
300501	FCP1 PMP-H2O SENSOR	2336.06		201	OT	180.50		
300502	FCP2 PMP-H2O SENSOR	2336.84		202	OT		180.80	
300503	FCP3 PMP-H2O SENSOR	240.90		203	OT			183.50
305301	H2O VENT LN HTR A	.44	5.00	47	OT			
305401	FCP1 H2O RLF VL HT A	.17	5.08	47	OT			
305402	FCP2 H2O RLF VL HT A	.17	5.08	47	OT			
305403	FCP3 H2O RLF VL HT A	.17	5.08	47	OT			
305602	H2O NOZ BARREL HTR B	223.99	49.83	49	OT			
305702	H2O NOZ ORIFICE HT B	233.27	49.98	49	OT			
310301	O2 INK1 SIG COND QTY	22.27		42	OT			
310302	O2 INK1 SIG COND QTY	22.27		42	OT			
310303	O2 INK2 SIG COND QTY	22.27		41	OT			
310304	O2 INK2 SIG COND QTY	22.47		41	OT			
311901	H2 TANK 1 HEATER A	98.50		7	OT			
311902	H2 TANK 1 HEATER B	98.80		9	OT			
311903	H2 TANK 2 HEATER A	99.30		8	OT			
311904	H2 TANK 2 HEATER B	99.30		8	OT			
320201	APU 1 FU ISO VLV 1	32.65		63	OT			
320202	APU 1 FU ISO VLV 2	32.64		64	OT			
320203	APU 2 FU ISO VLV 1	32.64		64	OT			
320204	APU 2 FU ISO VLV 2	32.63		65	OT			
320205	APU 3 FU ISO VLV 1	32.63		65	OT			
320206	APU 3 FU ISO VLV 2	32.65		66	OT			
320301	APU1 CNTLR-OPERATE	20.41		66	F5			
320302	APU2 CNTLR-OPERATE	20.40		67	F6			
320303	APU3 CNTLR-OPERATE	20.40		68	F6			
320401	APU 1 SHUTOFF VLV	36.25		66	OT			
320402	APU 2 SHUTOFF VLV	36.24		67	OT			
320403	APU 3 SHUTOFF VLV	36.24		68	OT			
320501	APU 1 MODULATING VLV	18.12	50.00	66	OT			
320502	APU 2 MODULATING VLV	18.12	50.00	67	OT			
320503	APU 3 MODULATING VLV	18.12	50.00	68	OT			
325201	FUEL FEEDLINE HTR 1A	12.95	19.13	84	OT			
325203	FUEL FEEDLINE HTR 2A	15.65	19.32	85	OT			
325205	FUEL FEEDLINE HTR 3A	10.47	21.94	86	OT			
325301	FUEL SERVLIN HTR 1A	12.33	19.11	84	OT			
325303	FUEL SERVLIN HTR 2A	9.05	18.97	85	OT			
325305	FUEL SERVLIN HTR 3A	11.16	17.31	86	OT			
325401	FUEL DRN LINE HTR 1A	7.79	18.96	84	OT			
325403	FUEL DRN LINE HTR 2A	10.12	18.98	85	OT			
325405	FUEL DRN LINE HTR 3A	5.58	17.07	86	OT			
325601	TURB GAS GEN HTR 1A	32.79	57.73	84	OT			

Figure 6.4-14. - Continued

325603	TURB GAS GEN HTR 2A	32.79	57.73	85	OT			
325605	TURB GAS GEN HTR 3A	32.79	57.73	85	OT			
325701	OIL LINE HTR 1A	10.95	15.94	84	OT			
325703	OIL LINE HTR 2A	11.37	16.02	85	OT			
325705	OIL LINE HTR 3A	11.63	16.38	86	OT			
325801	APU 1 PRI H2O HTR 1A	9.90	14.00	75	OT			
325803	APU 2 PRI H2O HTR 1A	2.87	14.00	76	OT			
325805	APU 3 PRI H2O HTR 1A	9.38	14.00	77	OT			
325901	APU 1 SEC H2O HTR 2A	10.55	14.00	75	OT			
325903	APU 2 SEC H2O HTR 2A	4.15	14.00	76	OT			
325905	APU 3 SEC H2O HTR 2A	4.79	14.00	77	OT			
326301	GG H2O TK LN HT 504A	4.37	14.00	75	OT			
326303	GG H2O TK LN HT 503A	7.94	14.00	77	OT			
400101	CABIN FAN A	648.53		203	HX			424.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	
400600	ARS HUM SEP SIG CND	2.35		217	AC			1.80A
400701	PP02 CNTLR-SYS 1	.73		16	AC			
400702	PP02 CNTLR-SYS 2	.73		17	AC			
400711	O2 CONTROL VLV-SYS 1	4.88	50.00	16	AC			
400731	CABIN PRESS SENSOR	.73		16	AC			
400732	CAB PRESS DECAY SENSR	2.07		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.04		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.04		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.04		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.04		17	AC			
400761	PP02 SENSOR-SYS 1	.83		16	AC			
400762	PP02 SENSOR-SYS 2	.83		17	AC			
400763	PP02 SENSOR-SYS 3	.83		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	219.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.71		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC			2.40B
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	6.74		16	OT			
401002	S D SNR A - BAY 1	6.74		16	OT			
401003	S D SNR B - BAY 1	6.74		17	OT			
401004	S D SNR A - BAY 2	6.74		16	OT			
401005	S D SNR B - BAY 2	6.74		17	OT			
401006	S D SNR A - BAY 3	6.74		17	OT			
401007	S D SNR B - BAY 3	6.74		16	OT			
401008	S D SNR A - CABIN	6.74		18	OT			
401009	S D SNR B - CABIN	6.74		18	OT			
401102	IHU FAN B	63.53		202	WC		48.60	
401200	IHU FAN SIG COND	2.35		218	AC			1.80B
401303	H2O PUMP - LOOP 2	251.80		203	WC			191.80
401501	H2O BYPASS CN SC-PRI	7.72		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.72		211	AC	5.90A		
402311	FOOD WARMER-OFT PHA	265.56		217	AC			203.00A
402312	FOOD WARMER-OFT PHC	267.97		219	AC			203.00C
402901	EBEON BMR LP 1-A ASC	416.05		201	FP	374.00		
402903	EBEON PMP LP 2-A ASC	477.86		203	FP			374.00
403001	RAD FLOW CNTLR A-LP1	2.07		17	OT			
403002	RAD FL CTR A-LP1 FALT	1.56		17	OT			

Figure 6.4-14. - Continued

403004	RD FL CTR B-LP1 FALT	1.56	16	OT			
403101	RAD FLOW CNTRL A-LP2	1.56	17	OT			
403102	RD FL CTR A-LP2 FALT	1.56	17	OT			
403104	RD FL CTR B-LP2 FALT	1.56	17	OT			
403201	RAD FL CNTRL VLV-LP 1	5.81	17	OT			
403202	RAD FL CNTRL VLV-LP 2	5.81	17	OT			
403601	FREGN COOL LP1 INSTR	6.54	215	OT	5.008		
403602	FREGN COOL LP2 INSTR	6.54	218	OT		5.008	
403701	FES CONTROLLER PRI A	7.71	86	OT			
403901	FES TOPIC PLSR V PRI	7.94	89	OT			
403921	TPNG V HLDNG COIL-PR	3.01	89	OT			
406000	VACUUM VNT NOZ HTR	11.40	5	OT			
408101	PRI FWTR LN HTA-TS5	1.53	7.24	OT			
408103	PRI FWTR LN HTA-TS2	3.02	14.26	OT			
408105	PRI FWTR LN HTA-TS7	7.75	15.16	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	OT			
408201	SEC FWTR LN HTA-TS1	1.01	4.78	OT			
408203	SEC FWTR LN HTA-TS2	2.87	13.56	OT			
408205	SEC FWTR LN HTA-TS3	9.43	18.46	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	OT			
409001	TOPIC DUCT HTR1 SEC1	46.53	12.28	OT			
409101	TOPIC DUCT HTR1 SEC2	116.26	24.81	OT			
409201	TOPIC DUCT HTR1 SEC3	26.30	41.88	OT			
409301	TOPIC DUCT HTR1 SEC4	26.30	40.59	OT			
409401	SONIC LFT NOZ HTR 3A	11.25	45.02	OT			
409501	SONIC RHT NOZ HTR 3A	11.13	45.02	OT			
500801	RESVOIR -1 VOL SNSR	1.83	212	OT	1.408		
500802	RESVOIR -2 VOL SNSR	1.83	215	OT		1.408	
500803	RESVOIR -3 VOL SNSR	1.83	218	OT			1.408
501801	RUD/SPDBK SW VL ACT-1	1.36	213	OT	1.00C		
501802	RUD/SPDBK SW VL PS2	1.37	216	OT		1.00C	
501901	ME 1 PITCH SW V ACTV	1.47	216	OT		1.00C	
501902	ME 1 YAW SW ACTV	1.47	216	OT		1.00C	
501903	ME 2 PITCH SW V ACTV	1.47	216	OT		1.00C	
501904	ME 2 YAW SW V ACTV	1.47	216	OT		1.00C	
501905	ME 3 PITCH SW V ACTV	1.47	216	OT		1.00C	
501906	ME 3 YAW SW V ACTV	1.47	216	OT		1.00C	
502001	ELV ACT SW V ACT-LO	1.36	213	OT	1.00C		
502002	ELV ACT SW V PS2-LO	1.37	216	OT		1.00C	
502003	ELV ACT SW V ACT-LI	1.36	216	OT	1.00C		
502004	ELV ACT SW V PS2-LI	1.37	216	OT		1.00C	
502005	ELV ACT SW V ACT-RI	1.36	213	OT	1.00C		
502006	ELV ACT SW V PS2-RI	1.37	216	OT		1.00C	
502007	ELV ACT SW V ACT-RO	1.36	216	OT	1.00C		
502008	ELV ACT SW V PS2-RO	1.37	216	OT		1.00C	
503701	H2O BLR1 CNT LOGIC A	4.71	212	OT		3.60A	
503703	H2O BLR2 CNT LOGIC A	3.92	213	OT	3.00C		
503705	H2O BLR3 CNT LOGIC A	3.79	214	OT		2.90A	
503801	H2O BOILER 1 CNTRL A	.80	63	OT			
503803	H2O BOILER 2 CNTRL A	.70	63	OT			
503805	H2O BOILER 3 CNTRL A	.80	64	OT			
505301	WSR TK/BOILER HTR 1A	6.05	3.81	OT			
505303	WSR TK/BOILER HTR 2A	8.38	5.42	OT			
505305	WSR TK/BOILER HTR 3A	7.67	4.83	OT			
505401	WSR VENT NOZZ HTR 1A	73.60	63	OT			
505403	WSR VENT NOZZ HTR 2A	61.50	63	OT			
505405	WSR VENT NOZZ HTR 3A	59.10	64	OT			

Figure 6.4-14. - Continued

522701 BRK/SKID CNIL BOX A 18.20
522702 BRK/SKID CNIL BOX B 18.21

	30	A1	
TOTAL INVERTER WATTS	2051.76	1354.93	2472.74
TOTAL 3 PHASE WATTS	958.60	591.00	1245.40
TOTAL A PHASE WATTS	250.60	155.80	215.80
TOTAL B PHASE WATTS	201.40	175.60	68.40
TOTAL C PHASE WATTS	168.00	171.00	363.00

Figure 6.4-14. - Concluded

TOTAL WAYS = 19622.33
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 048:01:04.1

Figure 6.4-15.- Vehicle configuration at 2 days 1 hour 31 minutes 4 seconds (Deorbit TIG-4 hours)

740

LISTING OF ALL ACTIVE COMPONENTS AT TIME 049:31:04.1

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

ORIGINAL PAGE IS
OF POOR
QUALITY

Figure 6.4-15. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	119.87			28	WC			
010102	IMU =2 OPERATE	119.87	*		29	WC			
010103	IMU =3 OPERATE	119.86	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.63			17	OT			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F5			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011011	ASA 1 ACTUATORS-OPER	16.75	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	16.75	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	16.75	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.74	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	13.20			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	13.20			79	F6			
011301	RGA =1 OPR	25.02	*		78	FA			
011302	RGA =2 OPR	25.31	*		64	FA			
011303	RGA =3 OPR	25.28	*		49	FA			
011304	RGA =4 OPR	25.00	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	THC-LH	3.21			19	AC			
011701	RHC-LH	4.87			19	AC			
011702	RHC-RH	4.88			20	AC			
011801	RPTA-LH	1.24			19	AC			
011802	RPTA-RH	1.25			20	AC			
011901	SBTC-LH	1.66			19	AC			
011902	SBTC-RH	1.66			20	AC			
020802	NTWK FM XMITR =1	29.02			34	W3			
021101	S-RND FM XMITR =1	10.78		15.00	33	W3			
021200	S-RND FM SIG PRO-ORB	7.77		15.00	36	A1			
021302	S-RND XPNDR=2-DIRECT	60.41	*		34	W3			
021600	S-RND ANT SW ASSY-GES	5.57	*		33	A3			
021701	TACAN =1 SEARCH	209.15	*		213	A1	160.00C		
021702	TACAN =2 SEARCH	209.15	*		216	A2		160.00C	
021703	TACAN =3 SEARCH	211.21	*		219	A3			160.00C
021901	MSRLS DCDR ASSY=1	57.17			16	A1			
021902	MSRLS DCDR ASSY=2	59.43			17	A2			
021903	MSRLS DCDR ASSY=3	55.12			18	A2			
022001	MSRLS RF ASSY=1	16.13			16	A1			
022002	MSRLS RF ASSY=2	16.74			17	A2			
022003	MSRLS RF ASSY=3	15.57			18	A2			

Figure 6.4-15. - Continued

022101	RADAR ALTIMETER =1	24.08	16	W1
022102	RADAR ALTIMETER =2	24.08	17	W2
024101	AUDIO CENTER 1	39.74	42	W1
024201	AUDIO TERM UN-PLT RT	3.48	42	AC
024202	AUDIO TERM UN-COR LT	3.48	41	AC
024203	AUDIO TERM UNIT-MSS-	3.56	10	AC
024204	AUDIO TERM UNIT-PS	3.73	15	AC
024701	SPKR MIKE UNIT -OS	1.79	10	AC
024702	SPKR MIKE UNIT-MID DK	1.80	11	AC
024910	MULTIPLE-HDSET-ADPTR	7.70	41	AC
028101	TV CAM HTR-FWD PLB	7.96	11	OT
028102	TV CAM HTR-AFT PLB	7.96	10	OT
028105	TV CAM HTR-KEEL BAY	7.96	15	OT
028201	PAN TLT HTR-FWD BAY	3.28	11	OT
028202	PAN TLT HTR-AFT BAY	3.28	10	OT
028203	PAN TLT HTR-KEEL BAY	3.28	15	OT
030101	ADI =1 FWD LH	17.73	19	AC
030102	ADI =2 FWD RH	17.76	20	AC
030201	HSI =1	27.96	16	AC
030202	HSI =2	27.93	17	AC
030301	AMT =1	7.33	16	AC
030302	AMT =2	7.32	17	AC
030401	ALPHA MACH EL UNIT 1	32.88	16	HX
030402	ALPHA MACH EL UNIT 2	32.85	17	HX
030501	AVVI =1	7.33	16	AC
030502	AVVI =2	7.32	17	AC
030601	ALT VER VEL EL UN =1	25.76	16	HX
030602	ALT VER VEL EL UN =2	25.74	17	HX
030705	TAPE MTR M1(HYD PRI)	9.42	17	AC
030706	TAPE MTR M2(HYD-QTY)	9.42	17	AC
030707	TAPE MTR M3(APU)	9.42	17	AC
030708	TAPE MTR M4(APU OIL)	6.28	17	AC
031300	SPI	17.40	16	AC
031400	OMS ARCS PROP-CTY-IND	4.87	18	AC
031501	C+W PWR SUP A-STBY	21.29	41	A3
031502	C+W PWR SUP B-STBY	13.51	42	A3
031701	MISSION TIMER =1 FWD	3.66	16	AC
031702	MISSION TIMER =2 AFT	3.77	17	AC
031801	EVENT TIMER =1 FWD	3.14	17	AC
031802	EVENT TIMER =2 AFT	3.14	16	AC
032201	DDU =1 FWD LH	120.00	19	HX
032202	DDU =2 FWD RH	120.00	20	HX
032701	CRT DU =1 - LF	88.25	22	HX
032702	CRT DU =2 - RF	88.25	23	HX
032703	CRT DU =3 - CF	88.25	24	HX
032801	DEU =1	202.00	22	HX
032802	DEU =2	202.00	23	HX
032803	DEU =3	202.00	24	HX
033101	PANEL LTS - LEFT/CTR	255.25	211	AC
033102	PANEL LTS - LEFT/OVHD	231.37	212	AC
033107	PANEL LTS - RHT/OVHD	172.55	214	AC
033201	INSTR LTS - LEFT/CTR	75.56	218	AC
033202	INSTR LTS - OVERHEAD	35.95	215	AC
033203	INSTR LTS - RIGHT	65.05	211	AC
033301	NUMERIC LIGHTS-FWD	22.88	212	AC
033501	MID DK FLDLT 1	16.75	4	AC
033502	MID DK FLDLT 2	16.85	5	AC

195.00A

177.00B

132.00A

27.50B

57.80B

49.70A

17.50B

Figure 6.4-15. - Continued

033503	MID DK FLDLT 3	16.85		6	AC
033504	MID DK FLDLT 4	16.85		6	AC
033506	MID DK FLDLT 6	16.85	*	5	AC
033507	MID DK FLDLT 7	16.85	*	6	AC
033508	MID DK FLDLT 8	16.75	*	4	AC
033701	MID DECK PANEL LT =1	6.74		6	AC
033702	MID DECK PANEL LT =2	6.70		4	AC
034202	GLARSHLD FLDLT-LEFT	8.21	*	41	AC
034203	GLARSHLD FLDLT-RGHT	8.20	*	42	AC
034205	RHT OVERHEAD FLDLT A	23.67		18	AC
035600	C+W ANNUN ASSY-OPR	7.96	*	41	AC
037200	CICU - OPER	6.95	*	43	A1
037301	ACA =1	13.51		16	AC
037302	ACA =2/3	27.13		17	AC
037303	ACA =4/5	24.37		18	AC
037401	ANNUN 1	2.90		16	AC
037402	ANNUN 2/3	5.40		17	AC
037403	ANNUN 4/5	4.54		18	AC
040301	PCM MASTER UNIT =1	55.00		30	M1
040401	OPS-1 RECORDER-REPLY	16.27	*	28	M2
040402	OPS-2 RECORDER-REPLY	53.60	*	29	M2
040501	DED SIG CND OF1- FWD	22.80		19	M1
040502	DED SIG CND OF2- FWD	32.60		20	M2
040503	DED SIG CND OF3- FWD	26.80		20	M3
040601	DED SIG CND OA1- AFT	36.20		66	F4
040602	DED SIG CND OA2- AFT	29.10		67	F5
040603	DED SIG CND OA3- AFT	29.10		68	F6
040900	MTU - OPER	30.67		43	M4
041201	DSC OL1 OMS/RCS	23.30		78	OT
041202	DSC OL2 OMS/RCS	21.40		80	OT
041203	DSC OR1 OMS/RCS	21.30		78	OT
041204	DSC OR2 OMS/RCS	21.40		79	OT
041301	DSC OM1 MID FUS	13.90		19	OT
041302	DSC OM2 MID FUS	22.10		19	OT
041400	DSC OF4 FWD RCS	26.90		19	OT
041601	WDRND S/C =1 (BAY4)	.40		63	OT
041602	WDRND S/C =2 (BAY4)	.40		63	OT
041603	WDRND S/C =3 (BAY4)	.40		63	OT
041604	WDRND S/C =4 (BAY4)	.40		63	OT
041701	WDRND S/C =1 (BAY5)	.40		64	OT
041702	WDRND S/C =2 (BAY5)	.40		64	OT
050100	PWR DIST ASSY FWD	10.60		12	DW
050201	PWR DIST ASSY =1 MID	9.78		44	D1
050202	PWR DIST ASSY =2 MID	9.78		44	D2
050203	PWR DIST ASSY =3 MID	9.78		44	D3
050301	PCM MASTER UNIT =1	55.00		24	DW
050401	DSC FWD =1-SDF1	22.20		12	DW
050402	DSC FWD =2-SDF2	22.20		12	DW
050403	DSC FWD =3-SDF3	22.50		12	DW
050501	DSC UNIT #1 - SDL1	16.60		44	D1
050502	DSC UNIT #2 - SDL2	24.70		44	D1
050503	DSC UNIT #3 - SDL3	16.60		44	D1
050504	DSC UNIT #4 - SDL4	24.70		44	D1
050505	DSC UNIT #5 - SDL5	46.70		44	D1
050506	DSC UNIT #1 - SDR1	16.60		44	D2
050507	DSC UNIT #2 - SDR2	24.70		44	D2
050508	DSC UNIT #3 - SDR3	16.60		44	D2

Figure 6.4-15. - Continued

050509	DSC UNIT #4 - SDR4	46.80		44	02
050601	DSC UNIT #1 - SDC1	16.60		44	03
050602	DSC UNIT #2 - SDC2	23.90		44	03
050603	DSC UNIT #3 - SDC3	16.60		44	03
050604	DSC UNIT #4 - SDC4	17.70		44	03
050605	DSC UNIT #5 - SDC5	16.60	50.00	12	0W
050701	WB FDM 1A (FMF1)-FWD	13.26	50.00	12	0W
050702	WB FDM 1B (FMF1)-FWD	13.26		47	03
050820	FREON FLOMTR-MID LT3	2.00		12	0W
050831	LOAD SEN ACCEL-1 FWD	3.71		12	0W
050832	LOAD SEN ACCEL-2 FWD	14.01		47	02
050833	LOAD SEN ACCEL-MR 2	10.53		48	02
050834	LOAD SEN ACCEL-MR 3	59.38		12	0W
050930	PCM RCOR-RECD-SERIAL	2.97		47	03
051011	WBSC FWD (A131)-100%	2.80		48	03
051332	WBSC LM3 (A145)-100%	3.21		12	0W
051333	WBSC LM3 (A145)-100%	24.50		12	0W
051501	SGSC FWD (A161)-100%	17.39		47	01
051502	SGSC ML1 (A162)-100%	92.84		47	01
051611	SGSC ML1 (A163)-100%	65.53		48	01
051621	SGSC ML1 (A163)-100%	7.72		47	01
051622	SGSC ML1 (A163)-100%	30.81		48	02
051625	SGSC ML1 (A163)-100%	114.88		48	02
051631	SGSC MR2 (A164)-100%	23.16		48	02
051632	SGSC MR2 (A164)-100%	103.95		48	02
051641	SGSC MR2 (A165)-100%	38.59		48	02
051642	SGSC MR2 (A165)-100%	71.17		48	02
051651	SGSC MR2 (A169)-100%	30.87		48	03
051654	SGSC MR2 (A169)-100%	16.58		48	03
051661	SGSC ML3 (A167)-100%	60.15		48	03
051671	SGSC ML3 (A167)-100%	23.16		12	0W
051673	SGSC ML3 (A167)-100%	53.90		44	01
051700	HDM DF1 - FWD	50.00		44	01
051801	HDM DL1 - MID LEFT 1	50.20		44	02
051802	HDM DL2 - MID LEFT 1	50.00		44	02
051803	HDM DR1 - MID RIGHT 2	52.80		44	03
051804	HDM DR2 - MID RIGHT 2	49.10		44	03
051805	HDM DC1 - MID LEFT 3	52.50		12	0W
051806	HDM DC2 - MID LEFT 3	127.25		21	0T
051900	S-BAND FM XMITR-DF1	8.10		21	0T
052200	ARS OFI SIGNAL COND	1.96		201	01
052300	AICS OFI SIGNAL COND	306.03		12	0T
052401	DFI FREON PUMP #1	1.80		33	W3
052500	3-AXIS ACCEL	28.47		41	A1
060901	GFND CMDS INTFC UN A	.60		201	A1
061001	INV DIST+CTL ASY1-AC	2.75		42	A2
061002	INV DIST+CTL ASY2-DC	.60		202	A2
061003	INV DIST+CTL ASY2-DC	2.75		43	A3
061004	INV DIST+CTL ASY3-DC	.60		203	A3
061005	INV DIST+CTL ASY3-AC	2.76		7	0T
061006	CURR SENSOR-MIOBDY-1	3.45		8	0T
061701	CURR SENSOR-MIOBDY-2	3.47		9	01
061702	CURR SENSOR-MIOBDY-3	3.47		64	0T
061703	CURR SENSOR-PL MN R	1.11		65	0T
061704	CURR SENSOR-PL MN C	1.11		22	0T
061705	CURR SENSOR-LH ADP	1.08			
061706					

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1.50A

234.00

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2.10

Figure 6.4-15. - Continued

061707	CURR SENSOR-LH ADP	1.08		23	OT
061708	CURR SENSOR-RH ADP	1.08		23	OT
061709	CURR SENSOR-RH ADP	1.08		23	OT
061801	H202 CRYO ASY1A-QUESS	11.99		9	FM
061802	H202 CRYO ASY1B-QUESS	12.05		9	FM
061811	H202 CRYO ASY2A-QUESS	12.06		9	FM
061812	H202 CRYO ASY2B-QUESS	12.05		9	FM
062101	MTR CNTL ASSY FWD	3.97	15.00	22	W1
062102	MTR CNTL ASSY FWD	3.68	12.50	23	W2
062103	MTR CNTL ASSY FWD	5.00	18.00	24	W3
062201	MTR CNTL ASSY MID	12.04	22.80	44	FM
062202	MTR CNTL ASSY MID	12.48	13.50	45	FM
062203	MTR CNTL ASSY MID	10.47	20.20	44	FM
062204	MTR CNTL ASSY MID	12.34	13.20	45	FM
062301	MTR CNTL ASSY AFT	9.09	20.00	63	F4
062302	MTR CNTL ASSY AFT	8.57	20.70	64	F5
062303	MTR CNTL ASSY AFT	15.45	30.60	65	F6
062401	LOAD CNTL ASSY FWD	23.04	28.00	32	W1
062402	LOAD CNTL ASSY FWD	25.15	30.61	33	W2
062403	LOAD CNTL ASSY FWD	25.76	10.18	34	W3
062501	LOAD CNTL ASSY AFT	22.06	25.61	84	F4
062502	LOAD CNTL ASSY AFT	22.46	27.47	85	F5
062503	LOAD CNTL ASSY AFT	19.57	34.81	86	F6
062601	PCA FWD	96.06	10.03	22	W1
062602	PCA FWD	40.46	12.65	23	W2
062603	PCA FWD	44.56	13.93	24	W3
062701	PCA MID	40.62	15.31	47	FM
062702	PCA MID	48.37	41.96	48	FM
062703	PCA MID	32.94	28.43	49	FM
062801	PCA AFT	28.70	34.55	72	F4
062802	PCA AFT	29.06	13.81	73	F5
062803	PCA AFT	26.49	30.85	74	F6
062804	PCA AFT	26.37	30.68	60	F4
062805	PCA AFT	30.81	35.86	61	F5
062806	PCA AFT	19.53	22.73	62	F6
070101	GPC CPU#1-RUN	313.00		31	A1
070102	GPC CPU#2-RUN	313.00		31	A2
070103	GPC CPU#3-RUN	313.00	*	31	A3
070104	GPC CPU#4-RUN	313.00		31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A1
070201	GPC IOP#1-RUN	340.00		31	A2
070202	GPC IOP#2-RUN	340.00		31	A3
070203	GPC IOP#3-RUN	340.00	*	31	A1
070204	GPC IOP#4-RUN	340.00		31	A2
070205	GPC IOP#5-RUN	340.00	*	31	A1
070301	MDM FF1	58.90		28	W1
070302	MDM FF2	60.00		29	W2
070303	MDM FF3	55.50		29	W3
070304	MDM FF4	58.60		29	W2
070401	MDM FA1	54.80		66	F5
070402	MDM FA2	54.20		67	F6
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	55.20		68	F6
070901	MM-1 TAPE OPER	19.61	*	22	W1
070902	MM-2 TAPE OPER	19.61	*	23	W2
071001	MDM OFI 1	46.80		19	W1
071002	MDM OFI 2	46.80		19	W2

Figure 6.4-15. - Continued

0711003	MDM OFI 3	47.40		21	N3
0711004	MDM OFI 4 FLT DECK	48.40		21	N3
0711101	MDM OAI 1	41.30		66	F4
0711102	MDM OAI 2	42.10		67	F5
0711103	MDM OAI 3	42.70		68	F6
0714001	MDM PL 1	54.40		28	W1
0714002	MDM PL 2	56.90		29	W2
0750001	GPC CNTLR 1 PS A	6.98		31	A1
0750002	GPC CNTLR 1 PS B	6.98		31	A1
0750003	GPC CNTLR 2 PS A	6.98		31	A2
0750004	GPC CNTLR 2 PS B	6.98		31	A2
0750005	GPC CNTLR 3 PS A	6.98		31	A2
0750006	GPC CNTLR 3 PS B	1.34		31	A2
2037001	ENG 1 FASCOS SYS A	23.22		63	OT
2037002	ENG 1 FASCOS SYS B	23.22		64	OT
2037003	ENG 1 FASCOS SYS C	23.22		65	OT
2037004	ENG 2 FASCOS SYS A	23.23		63	OT
2037005	ENG 2 FASCOS SYS B	23.22		64	OT
2037006	ENG 2 FASCOS SYS C	23.22		65	OT
2037007	ENG 3 FASCOS SYS A	23.23		63	OT
2037008	ENG 3 FASCOS SYS B	23.22		64	OT
2037009	ENG 3 FASCOS SYS C	23.22		65	OT
2107001	LP ACT GMBL INST/LOG	7.16		72	OT
2107002	LP STB GMBL INST/LOG	7.16		73	OT
2107003	RP ACT GMBL INST/LOG	7.16		74	OT
2107004	RP STB GMBL INST/LOG	7.16		72	OT
2115001	BIPROP VL1 LP POS ID	1.43		72	OT
2115002	BIPROP VL2 LP POS ID	1.43		73	OT
2115003	BIPROP VL1 RP POS ID	1.43		72	OT
2115004	BIPROP VL2 RP POS ID	1.43		74	OT
2121006	TK ISO/XFD VL TLK BCK	.31		72	AC
2124001	QUAN GAGE TOT-LP-OPR	9.35	*	78	OT
2124002	QUAN GAGE TOT-RP-OPR	9.35	*	80	OT
2151001	GSE SR PN HT A-43-LP	0.77		22.71	OT
2151002	ENG SR PN HT A-37-LP	10.71		16.61	72
2151003	OME COVER HT A-53-LP	37.91		35.23	72
2151004	Y-WB OTBD HT A-27-LP	26.86		24.96	72
2151005	Y-WB INBD HT A-33-LP	23.03		21.40	72
2151006	Y-WB UPB HT A-31-LP	6.06		5.63	72
2151007	CT LN WB HT A1-21-LP	71.84		35.53	72
2151008	CT LN WB HT A2-21-LP	75.64		35.53	72
2151009	CT LN WB HT A3-21-LP	37.80		35.53	72
2151101	CT LN WB HT A4-21-LP	77.53		35.53	72
2151102	RCS HSNG HT A1-41-LP	22.71		19.20	72
2151103	RCS HSNG HT A2-41-LP	19.60		19.20	72
2153001	GSE SR PN HT A-44-RP	0.77		22.71	73
2153002	ENG SR PN HT A-38-RP	10.71		16.61	73
2153003	OME COVER HT A-54-RP	37.91		35.23	73
2153004	Y-WB OTBD HT A-28-RP	26.86		24.96	73
2153005	Y-WB INBD HT A-34-RP	23.03		21.40	73
2153006	Y-WB UPB HT A-32-RP	6.06		5.63	73
2153007	CT LN WB HT A1-22-RP	71.84		35.53	73
2153008	CT LN WB HT A2-22-RP	75.64		35.53	73
2153009	CT LN WB HT A3-22-RP	37.80		35.53	73
2153101	CT LN WB HT A4-22-RP	77.53		35.53	73
2153102	RCS HSNG HT A1-42-RP	22.71		19.20	73
2153103	RCS HSNG HT A2-42-RP	19.60		19.20	73

Figure 6.4-15. - Continued

217001	XFD OX/FU FLX HTA-L	10.70	30.13	72	OT
217001	XFD OX/FU FLX HTA-R	10.70	30.13	72	OT
217101	XFD OX/FU LNE HT-A-L	7.44	12.02	72	OT
217101	XFD OX/FU LNE HT-A-R	7.44	12.02	72	OT
217103	XFD OX/FU LNE HT-A-C	9.77	10.82	72	OT
217201	FU HIPT BLDLN HT-A-A	4.19	27.72	72	OT
217203	FU HIPT BLDLN HT-A-M	6.74	27.75	72	OT
217301	OX HIPT BLDLN HT-A-A	4.65	30.80	72	OT
217301	OX HIPT BLDLN HT-A-M	6.98	28.71	72	OT
217401	LOPT OXFU DRLN HTA-L	1.40	17.66	72	OT
217403	LOPT OXFU DRLN HTA-R	1.40	17.66	72	OT
220101	FWD THRUSTER F1F1-X1	.10	.15	22	OT
220103	FWD THRUSTER F2F1-X1	.10	.15	23	OT
220105	FWD THRUSTER F3F1-X1	.10	.15	24	OT
220107	FWD THRUSTER F3L1-Y1	.10	.15	24	OT
220111	AFT THRUSTER R1R1-Y1	.14	.20	78	OT
220201	AFT THRUSTER R2R1-Y1	.14	.20	80	OT
220204	AFT THRUSTER R3R1-Y1	.14	.20	79	OT
220207	AFT THRUSTER L1L1-Y1	.14	.20	78	OT
220214	AFT THRUSTER L2L1-Y1	.14	.20	80	OT
220217	AFT THRUSTER L3L1-Y1	.14	.20	79	OT
225101	FWD RCS HT-ENG F1E-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT
225105	FWD RCS HT-ENG F2E-X	4.51	20.98	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.72	8.01	8	OT
225107	FWD RCS HT-ENG F2U+Z	3.47	16.12	8	OT
225108	FWD RCS HT-ENG F2D-Z	2.41	11.21	8	OT
225109	FWD RCS HT-ENG F3E-X	3.84	17.85	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.55	7.19	8	OT
225112	FWD RCS HT-ENG F3U+Z	3.82	15.90	8	OT
225113	FWD RCS HT-ENG F3D-Z	1.92	8.91	8	OT
225114	FWD RCS HT-ENG F4R-Y	1.58	7.33	9	OT
225115	FWD RCS HT-ENG F4D-Z	1.92	8.91	9	OT
225201	AFT RCS HT-ENG R1R-Y	.72	3.35	85	OT
225202	AFT RCS HT-ENG R2R-Y	.72	3.35	84	OT
225203	AFT RCS HT-ENG R3R-Y	.72	3.35	86	OT
225204	AFT RCS HT-ENG R4R-Y	.72	3.35	86	OT
225205	AFT RCS HT-ENG R2D-Z	.63	2.92	84	OT
225206	AFT RCS HT-ENG R3D-Z	.63	2.92	86	OT
225207	AFT RCS HT-ENG R4D-Z	.63	2.92	86	OT
225208	AFT RCS HT-ENG R1U+Z	1.07	4.98	85	OT
225209	AFT RCS HT-ENG R2U+Z	1.07	4.98	84	OT
225211	AFT RCS HT-ENG R4U+Z	1.07	4.98	86	OT
225212	AFT RCS HT-ENG R1A+X	1.07	3.31	85	OT
225213	AFT RCS HT-ENG R3A+X	2.37	7.34	86	OT
225301	AFT RCS HT-ENG L1L+Y	.72	3.35	85	OT
225302	AFT RCS HT-ENG L2L+Y	.72	3.35	84	OT
225303	AFT RCS HT-ENG L3L+Y	.72	3.35	86	OT
225304	AFT RCS HT-ENG L4L+Y	.72	3.35	86	OT
225305	AFT RCS HT-ENG L2D-Z	.63	2.92	84	OT
225306	AFT RCS HT-ENG L3D-Z	.63	2.92	86	OT
225307	AFT RCS HT-ENG L4D-Z	.63	2.92	86	OT
225308	AFT RCS HT-ENG L1U+Z	1.07	4.98	85	OT
225309	AFT RCS HT-ENG L2U+Z	1.07	4.98	84	OT
225311	AFT RCS HT-ENG L4U+Z	1.07	4.98	86	OT

Figure 6.4-15. - Continued

225312	AFT RCS HT-ENG L1A+X	1.07	3.31	85	OT	
225313	AFT RCS HT-ENG L1A+X	2.37	7.34	86	OT	
225401	FWD VRN HT-ENG FSR	1.21	11.16	9	OT	
225402	FWD VRN HT-ENG FSL	1.06	9.77	9	OT	
225501	AFT VRN HT-ENG RSD-Z	1.84	7.75	86	OT	
225502	AFT VRN HT-ENG RSR-Y	3.85	36.60	86	OT	
225503	AFT VRN HT-ENG LSD-Z	1.84	7.75	86	OT	
225504	AFT VRN HT-ENG LSL-Y	3.95	36.60	86	OT	
300201	FCP-1 O2 FLOWMETER	6.20		47	OT	
300202	FCP-2 O2 FLOWMETER	6.35		48	OT	
300203	FCP-3 O2 FLOWMETER	6.35		49	OT	
300301	FCP-1 H2 FLOWMETER	6.20		47	OT	
300302	FCP-2 H2 FLOWMETER	6.35		48	OT	
300303	FCP-3 H2 FLOWMETER	6.35		49	OT	
300401	FCP1 EL CTL-ORBT	4.98		39	OT	
300402	FCP2 EL CTL-ORBT	4.97		40	OT	
300403	FCP3 EL CTL-ORBT	4.88		41	OT	
300501	FCP1 PMP+H2O SENSOR	236.06		201	OT	180.50
300502	FCP2 PMP+H2O SENSOR	236.34		202	OT	
300503	FCP3 PMP+H2O SENSOR	240.90		203	OT	180.80
305301	H2O VENT LN HTR A	.44	5.00	47	OT	183.50
305401	FCP1 H2O RLF VL HT A	.17	5.08	47	OT	
305403	FCP2 H2O RLF VL HT A	.17	5.08	47	OT	
305405	FCP3 H2O RLF VL HT A	.17	5.08	47	OT	
305602	H2O NO2 BARREL HTR B	21.84	49.83	49	OT	
305702	H2O NO2 ORIFICE HT B	21.84	49.83	49	OT	
310301	O2 INK1 SIG COND QTY	2.28		42	OT	
310302	H2 INK1 SIG COND QTY	2.28		42	OT	
310303	O2 INK2 SIG COND QTY	2.29		41	OT	
310304	H2 INK2 SIG COND QTY	2.49		41	OT	
320301	APU1 CNTLR-OPERATE	6.90		66	F4	
320302	APU2 CNTLR-OPERATE	6.90		67	F5	
320303	APU3 CNTLR-OPERATE	6.90		68	F6	
325201	FUEL FEEDLINE HTR 1A	12.96	19.13	84	OT	
325203	FUEL FEEDLINE HTR 2A	15.65	19.32	85	OT	
325205	FUEL FEEDLINE HTR 3A	10.47	21.94	86	OT	
325301	FUEL SERVLIN HTR 1A	12.33	19.11	84	OT	
325303	FUEL SERVLIN HTR 2A	9.05	18.97	85	OT	
325305	FUEL SERVLIN HTR 3A	11.16	17.31	86	OT	
325401	FUEL DRN LINE HTR 1A	7.79	16.96	84	OT	
325403	FUEL DRN LINE HTR 2A	10.12	18.98	85	OT	
325405	FUEL DRN LINE HTR 3A	6.68	17.07	86	OT	
325601	TURB GAS GEN HTR 1A	32.79	57.73	84	OT	
325603	TURB GAS GEN HTR 2A	32.79	57.73	85	OT	
325605	TURB GAS GEN HTR 3A	32.79	57.73	86	OT	
325701	OIL LINE HTR 1A	10.95	15.94	84	OT	
325703	OIL LINE HTR 2A	11.37	16.02	85	OT	
325705	OIL LINE HTR 3A	11.63	16.38	86	OT	
325801	APU 1 PRT H2O HTR 1A	9.90	35.00	75	OT	
325803	APU 2 PRT H2O HTR 1A	2.87	35.00	76	OT	
325805	APU 3 PRT H2O HTR 1A	9.38	35.00	77	OT	
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	OT	
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT	
325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	OT	
326301	GG H2O TK L& HT 504A	4.37	35.00	75	OT	
326303	GG H2O TK LN HT 503A	7.94	35.00	77	OT	
400101	CABIN FAN A	648.53		203	HX	494.00

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Figure 6.4-15. - Continued

400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC			
400301	CAB AIR TEMP CN EL PR	5.23		214	AC		16.90A	
400400	CAB AIR SIGNAL COND	4.84		212	AC		4.00A	
400502	ARS HUMIDITY SEP B	37.25		202	AC	3.70B		
400600	ARS HUM SEP SIG CND	2.35		217	AC		28.50	
400701	PP02 CNTLR-SYS 1	.73		16	AC			1.80A
400702	PP02 CNTLR-SYS 2	.73		16	AC			
400711	O2 CONTROL VLV-SYS 1	4.92	50.00	16	AC			
400731	CABIN PRESS SENSOR	.73		16	AC			
400732	CAB PRESS DECCY SENS	2.09		16	AC			
400751	O2 FLOW SENSOR-SYS 1	1.05		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.05		16	AC			
400753	N2 FLOW SENSOR-SYS 1	1.05		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.05		16	AC			
400761	PP02 SENSOR-SYS 1	.84		16	AC			
400762	PP02 SENSOR-SYS 2	.84		16	AC			
400763	PP02 SENSOR-SYS 3	.84		16	AC			
400801	AVION FAN-BAY 1 (A)	219.61		202	AC			
400803	AVION FAN-BAY 2 (A)	213.07		202	AC		168.00	
400901	AVION FAN-BAY 3 (B)	219.72		201	AC		163.00	
400902	AVION BAY 1 SIG COND	3.14		218	AC	168.00		
400903	AVION BAY 2 SIG COND	2.35		218	AC			2.40B
401001	AVION BAY 3 SIG COND	3.27		215	AC	1.80B		
401002	SMOKE DT SNR-L FLT D	6.81		16	OT		2.50B	
401003	S D SNR A - BAY 1	6.81		16	OT			
401004	S D SNR B - BAY 1	6.80		16	OT			
401005	S D SNR A - BAY 2	6.81		16	OT			
401006	S D SNR B - BAY 2	6.84		16	OT			
401007	S D SNR A - BAY 3	6.80		16	OT			
401008	S D SNR B - BAY 3	6.81		16	OT			
401009	S D SNR - CABIN	6.84		16	OT			
401102	IMU FAN B	63.53		202	OT			
401200	IMU FAN SIG COND	2.35		218	AC		48.60	
401303	H2O PUMP - LGJP 2	251.80		203	WC			1.80B
401501	H2O BYPASS CN SC-PRI	7.72		211	AC		191.80	
401502	H2O BYPASS CN SC-SEC	7.72		211	AC		5.90A	
402311	FOOD WARMER-OFT PMA	265.56		211	AC	5.90A		
402312	FOOD WARMER-OFT PHC	267.97		211	AC			203.00A
402901	FREON PMP LP 1-A ASC	476.05		219	AC			203.00C
402903	FREON PMP LP 2-A ASC	477.86		201	FP	374.00		
403001	RAD FLOW CNTLR A-LP1	2.09		203	FP		374.00	
403002	RD FL CTR A-LP1 FALT	1.57		17	OT			
403004	RD FL CTR B-LP1 FALT	1.57		17	OT			
403101	RAD FLOW CNTLR A-LP2	2.09		16	OT			
403102	RD FL CTR A-LP2 FALT	1.57		17	OT			
403104	RD FL CTR B-LP2 FALT	1.57		17	OT			
403201	RAD FL CNTL VLV-LP 1	5.86		16	OT			
403202	RAD FL CNTL VLV-LP 2	5.86		17	OT			
403601	FREON COOL LP1 INSTR	6.54		215	OT			
403602	FREON COOL LP2 INSTR	6.54		215	OT		5.00B	
403701	FES CONTROLLER PRI A	7.82		86	OT			5.00B
403901	FES TOP'C PLSR V-PRI	8.05	27.00	89	OT			
403921	TPNG V HLUNG COIL-PR	3.05	80.00	89	OT			
406000	VACUUM VNT NOZ HTR	11.40		5	OT			
408101	PRI FWTR LN HTA-TS5	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS6	3.02	14.26	84	OT			

Figure 6.4-15. - Continued

408105	PRI FWTR LN HTA-TS7	7.75	15.16	47	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	84	OT			
408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408203	SEC FWTR LN HTA-TS12	2.87	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	9.43	18.46	49	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	26	OT			
409001	TOP'G DUCT HTR1 SEC1	46.53	12.28	47	OT			
409101	TOP'G DUCT HTR1 SEC2	116.26	25.55	47	OT			
409201	TOP'G DUCT HTR1 SEC3	26.30	11.88	84	OT			
409301	TOP'G DUCT HTR1 SEC4	26.30	40.59	84	OT			
409401	SONIC LFT NOZ HTR 1A	11.25	45.02	84	OT			
409501	SONIC RHT NOZ HTR 2A	11.12	45.02	84	OT			
500801	RESVOIR =1 VOL SNSR	1.83		212	OT	1.408	1.406	
500802	RESVOIR =2 VOL SNSR	1.83		215	OT			1.408
500803	RESVOIR =3 VOL SNSR	1.83		218	OT			3.60A
503701	H2O BLR1 CNT LOGIC A	4.71		217	OT			
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C	2.90A	
503705	H2O BLR3 CNT LOGIC A	3.79		214	OT			
503801	H2O BOILR 1 CNTL A	.81		65	OT			
503803	H2O BOILR 2 CNTL A	.71		63	OT			
503805	H2O BOILR 3 CNTL A	.81		64	OT			
505301	WSB TK/BOILER HTR 1A	6.05	3.81	65	OT			
505303	WSB TK/BOILER HTR 2A	8.38	5.42	63	OT			
505305	WSB TK/BOILER HTR 3A	7.67	4.83	64	OT			
522701	BRK/SKID CNTL BOX A	18.37		30	A1			
522702	BRK/SKID CNTL BOX B	18.38		29	A2			
TOTAL INVERTER WATTS			2044.97			1223.37	2472.74	
TOTAL 3 PHASE WATTS			958.60			591.00	1245.40	
TOTAL A PHASE WATTS			250.60			155.80	215.80	
TOTAL B PHASE WATTS			201.40			42.60	68.40	
TOTAL C PHASE WATTS			163.00			160.00	363.00	

Figure 6.4-15. - Concluded

751

TOTAL WATTS - 18493.10

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 049:31:04.1

Figure 6.4-16.- Vehicle configuration at 2 days 4 hours 48 minutes (Deorbit TIG-43 minutes)

752

LISTING OF ALL ACTIVE COMPONENTS AT TIME 052:48:00.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEC LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-16. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	119.53			28	WC			
010102	IMU =2 OPERATE	119.54	*		29	WC			
010103	IMU =3 OPERATE	119.54	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.62			17	OT			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010601	ATVC =1 PWR SUP-OPER	38.90	*		66	F4			
010602	ATVC =2 PWR SUP-OPER	38.90	*		67	F5			
010603	ATVC =3 PWR SUP-OPER	38.90	*		68	F6			
010604	ATVC =4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC =1 ISO VLV DRVR	.79			65	F4			
010812	ATVC =2 ISO VLV DRVR	.79			63	F5			
010813	ATVC =3 ISO VLV DRVR	.79			64	F6			
010814	ATVC =4 ISO VLV DRVR	.79			76	F6			
010821	ATVC =1 ACTS-OPER	3.30	*		66	OT			
010822	ATVC =2 ACTS-OPER	3.30	*		67	OT			
010823	ATVC =3 ACTS-OPER	3.30	*		68	OT			
010824	ATVC =4 ACTS-OPER	3.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	51.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	51.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	51.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	51.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	.40	*		68	F4			
011002	ASA =2 IVD/BF-OPER	.40	*		66	F5			
011003	ASA =3 IVD/BF-OPER	.40	*		67	F6			
011004	ASA =4 IVD-OPER	.40	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	16.40	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	16.39	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	16.40	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.39	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	RGA =1 OPR	24.78	*		78	FA			
011302	RGA =2 OPR	25.06	*		64	FA			
011303	RGA =3 OPR	25.14	*		49	FA			
011304	RGA =4 OPR	24.87	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	RHC-LH	3.17			19	AC			
011701	RHC-LH	4.81			19	AC			
011702	RHC-PH	4.82			20	AC			
011801	RPTA-LH	1.23			19	AC			
011802	RPTA-RH	1.23			20	AC			

Figure 6.4-16. - Continued

011901	SBTC-LH	1.64		19	AC
011902	SBTC-RH	1.64		20	AC
020602	NTWK SIG PROCESSOR 2	28.64		34	W3
021101	S-RND FM XMITR =1	10.63	15.00	33	W3
021200	S-RND FM SIG PRO-ORB	.76	15.00	36	W3
021302	S-RND XPNDR-2-DIRECT	59.61		34	W3
021401	S-RND PWR AMP 1-SBY	21.01		23	W3
021402	S-RND PWR AMP 2-OPR	383.49		24	W3
021501	S-RD PREAMP 1-SBY	13.02		33	W3
021502	S-RD PREAMP 2-OPR	19.89		34	W3
021600	S-BN ANT SW ASY-QES	.56		33	A3
021701	TACAN =1 SEARCH	209.15		213	A1
021702	TACAN =2 SEARCH	209.15		216	A2
021703	TACAN =3 SEARCH	209.49		219	A3
021901	MSBLS DCDR ASSY-1	56.40		16	A1
021902	MSBLS DCDR ASSY =2	58.65		17	A2
021903	MSBLS DCDR ASSY =3	54.41		18	A3
022001	MSBLS RF ASSY =1	15.91		16	A1
022002	MSBLS RF ASSY =2	16.52		17	A2
022003	MSBLS RF ASSY =3	15.37		18	A3
022101	RADAR ALTIMETER =1	23.76		16	W1
022102	RADAR ALTIMETER =2	23.76		17	W2
024101	AUDIO CENTER 1	39.26		42	W1
024201	AUDIO TERM UN-PLT RT	3.44		42	AC
024202	AUDIO TERM UN-CDR LT	3.44		41	AC
024203	AUDIO TERM UNIT-MSG	1.60		10	AC
024204	AUDIO TERM UNIT-PS	3.68		15	AC
024701	SPKR MIKE UNIT -OS	1.76	80.00	10	AC
024702	SPKR MIKE UNIT-MID OK	1.77	80.00	11	AC
024801	AUDIO INTF UNIT-PLT	.69		42	AC
024802	AUDIO INTF UNIT-CMDR	.69		41	AC
024910	MULTIPLE HDSET ADPTR	.69		41	AC
028101	TV CAM HTR-FWD PLB	7.96	40.00	11	OT
028102	TV CAM HTR-AFT PLB	7.96	40.00	10	OT
028105	TV CAM HTR-KEEL BAY	7.96	40.00	15	OT
028201	PAN TLT HTR-FWD BAY	3.28	40.00	11	OT
028202	PAN TLT HTR-AFT BAY	3.28	40.00	10	OT
028203	PAN TLT HTR-KEEL BAY	3.28	40.00	15	OT
030101	ADI =1 FWD LH	17.48		19	AC
030102	ADI =2 FWD RH	17.52		20	AC
030201	HST =1	27.58		16	AC
030202	HST =2	27.57		17	AC
030301	AMI =1	7.23		16	AC
030302	AMI =2	7.23		17	AC
030401	ALPHA MACH EL UNIT 1	32.43		16	HX
030402	ALPHA MACH EL UNIT-2	32.42		17	HX
030501	AVVI =1	7.23		16	AC
030502	AVVI =2	7.23		17	AC
030601	ALT VER VEL EL UN =1	25.41		16	HX
030602	ALT VER VEL EL UN =2	25.40		17	HX
030705	TAPE MTR M1(HYD PR)	9.29		17	AC
030706	TAPE MTR M2(HYD QTY)	9.29		17	AC
030707	TAPE MTR M3(APU)	9.29		17	AC
030708	TAPE MTR M4(APU-OIL)	6.20		17	AC
031300	SPI	17.40		16	AC
031400	OMS/RCS PROP QTY IND	4.85		18	AC
031501	C+W PWR SUP A-STBY	21.03		41	A3

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Figure 6.4-16. - Continued

031502	C+W PWR SUP R-STBY	13.35		42	A3			
031701	MISSION TIMER =1 FWD	3.62		16	AC			
031702	MISSION TIMER =2 AFT	3.72		17	AC			
031801	EVENT TIMER =1 FWD	3.10		16	AC			
031802	EVENT TIMER =2 AFT	3.10		19	HX			
032201	DDU =1 FWD LH	120.00		20	HX			
032202	DDU =2 FWD RH	120.00		22	HX			
032701	CRT DU =1 - LF	87.12		23	HX			
032702	CRT DU =2 - RF	87.12		24	HX			
032703	CRT DU =3 - CF	87.07		22	HX			
032801	DEU =1	202.00		23	HX			
032802	DEU =2	202.00		24	HX			
032803	DEU =3	202.00		211	AC	195.00A		
033101	PANEL LTS - LEFT/CTR	255.11		212	AC	177.00B		
033102	PANEL LTS - LFT/OVHD	231.37		214	AC		132.00A	
033107	PANEL LTS - RHT/OVHD	172.55		218	AC			57.80B
033201	INSTR LTS - LEFT/CTR	75.56		215	AC		27.50B	
033202	INSTR LTS - OVERHEAD	35.95		211	AC	49.70A		
033203	INSTR LTS - RIGHT	65.07		212	AC	17.50B		
033301	NUMERIC LIGHTS-FWD	22.88		6	AC			
033701	MID DECK PANEL LT =1	6.66		4	AC			
033702	MID DECK PANEL LT =2	6.61		41	AC			
034202	GLARSHLD FLDLT-LEFT	8.11	*	42	AC			
034203	GLARSHLD FLDLT-RIGHT	8.10	*	18	AC			
034205	RHT OVERHEAD FLDLT A	23.36	*	41	AC			
035600	C+W ANNUN ASSY-OPR	7.86	*	43	A1			
037200	CICU - OPER	6.86		16	AC			
037301	ACA =1	13.33		17	AC			
037302	ACA =2/3	26.78		18	AC			
037303	ACA =4/5	24.06		15.60	AC			
037401	ANNUN 1	2.87		16	AC			
037402	ANNUN 2/3	5.33		17	AC			
037403	ANNUN 4/5	4.48		18	AC			
040301	PCM MASTER UNIT =1	55.00		30	H1			
040401	OPS-1 RECORDER-REPLY	16.05	*	28	H2			
040402	OPS-2 RECORDER-REPLY	55.89	*	29	H2			
040403	PAYLD RECORDER-REPLY	55.89	*	30	H1			
040501	DED SIG CND OF1- FWD	22.80		19	H1			
040502	DED SIG CND OF2- FWD	32.60		20	H2			
040503	DED SIG CND OF3- FWD	26.80		20	H3			
040601	DED SIG CND OA1- AFT	36.20		66	F4			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPER	30.28		43	H4			
041201	DSC OL1 OMS/RCS	23.30		78	OT			
041202	DSC OL2 OMS/RCS	21.40		80	OT			
041203	DSC OR1 OMS/RCS	23.30		79	OT			
041204	DSC OR2 OMS/RCS	21.40		19	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WRBND S/C =1 (BAY4)	.40		63	OT			
041602	WRBND S/C =2 (BAY4)	.40		63	OT			
041603	WRBND S/C =3 (BAY4)	.40		63	OT			
041604	WRBND S/C =4 (BAY4)	.40		63	OT			
041701	WRBND S/C =1 (BAYS)	.40		64	OT			
041702	WRBND S/C =2 (BAYS)	.40		64	OT			

Figure 6.4-16. - Continued

050100	PWR DIST ASSY FWD	10.48	12	DV
050201	PWR DIST ASSY -1 MID	9.65	44	D1
050202	PWR DIST ASSY -2 MID	9.65	44	D2
050203	PWR DIST ASSY -3 MID	9.65	44	D3
050301	PCM MASTER UNIT -1	55.00	24	DW
050401	DSC FWD -1-SDF1	32.20	12	DW
050402	DSC FWD -2-SDF2	22.20	12	DW
050403	DSC FWD -3-SDF3	22.50	12	DW
050501	DSC UNIT #1 - SOL1	16.60	44	D1
050502	DSC UNIT #2 - SOL2	16.70	44	D1
050503	DSC UNIT #3 - SOL3	16.60	44	D1
050504	DSC UNIT #4 - SOL4	24.70	44	D1
050505	DSC UNIT #5 - SOL5	46.70	44	D1
050506	DSC UNIT #1 - SDR1	16.60	44	D2
050507	DSC UNIT #2 - SDR2	24.70	44	D2
050508	DSC UNIT #3 - SDR3	16.60	44	D2
050509	DSC UNIT #4 - SDR4	46.80	44	D2
050601	DSC UNIT #1 - SOC1	16.60	44	D3
050602	DSC UNIT #2 - SOC2	23.90	44	D3
050603	DSC UNIT #3 - SOC3	16.60	44	D3
050604	DSC UNIT #4 - SOC4	17.70	44	D3
050605	DSC UNIT #5 - SOC5	16.60	44	D3
050701	WB FDM 1A IFMF11-FWD	13.09	50.00	DW
050702	WB FDM 1B IFMF11-FWD	13.09	50.00	DW
050820	FREQN FLOMTR-MID LT3	1.97	12	DW
050831	LOAD SEN ACCEL-1 FWD	1.67	47	D3
050832	LOAD SEN ACCEL-2 FWD	3.67	12	DW
050833	LOAD SEN ACCEL-MR 2	13.82	47	DW
050834	LOAD SEN ACCEL-MR 3	10.39	48	D2
050930	PCM-RCOR-RECD-SERIAL	58.66	12	DW
051011	WBSC FWD (A131)-100%	2.93	12	DW
051332	WBSC LM3 (A145)-100%	2.76	47	D3
051333	WBSC LM3 (A145)-100%	3.17	48	D3
051501	SGSC FWD (A161)-100%	24.20	12	DW
051502	SGSC FWD (A161)-100%	17.18	12	DW
051611	SGSC ML1 (A162)-100%	91.63	47	D1
051621	SGSC ML1 (A163)-100%	64.68	47	D1
051624	SGSC ML1 (A163)-100%	7.62	48	D1
051625	SGSC ML1 (A163)-100%	30.41	47	D1
051631	SGSC MR2 (A164)-100%	113.40	48	D2
051632	SGSC MR2 (A164)-100%	22.86	48	D2
051641	SGSC MR2 (A165)-100%	102.61	48	D2
051642	SGSC MR2 (A165)-100%	38.10	48	D2
051651	SGSC MR2 (A169)-100%	70.26	48	D2
051654	SGSC MR2 (A169)-100%	30.48	48	D2
051661	SGSC ML2 (A166)-100%	75.60	48	D3
051671	SGSC ML3 (A167)-100%	59.37	48	D3
051673	SGSC ML3 (A167)-100%	22.86	48	D3
051700	MDM DF1 - FWD	53.90	12	DW
051801	MDM DL1 - MID LEFT 1	50.00	44	D1
051802	MDM DL2 - MID LEFT 1	50.20	44	D1
051803	MDM DR1 - MID RIGHT 2	50.00	44	D2
051804	MDM DR2 - MID RIGHT 2	52.80	44	D2
051805	MDM DC1 - MID LEFT 3	49.10	44	D3
051806	MDM DC2 - MID LEFT 3	52.50	44	D3
051900	S-BAND FM XMTR-DF1	125.70	12	DW
052200	ARS DF1 SIGNAL COND	8.10	215	OT

Figure 6.4-16. - Continued

052300	ATCS DFI SIGNAL COND	1.96	217	OT		
052481	DFI FREON PUMP #1	306.96	201	D1	234.00	1.50A
052500	3-AXIS ACCEL	1.78	12	OT		
060901	GRND CMDS INTFC UN A	28.09	33	W3		
061001	INV DIST+CTL ASY1-DC	.59	41	A1		
061002	INV DIST+CTL ASY1-AC	2.75	201	A1	2.10	
061003	INV DIST+CTL ASY2-DC	.59	42	A2		
061004	INV DIST+CTL ASY2-AC	2.75	202	A2	2.10	
061005	INV DIST+CTL ASY3-DC	.59	43	A3		
061006	INV DIST+CTL ASY3-AC	2.75	203	A3	2.10	
061701	CURR SENSOR-MIDBODY=1	3.40	7	OT		
061702	CURR SENSOR-MIDBODY=2	3.43	8	OT		
061703	CURR SENSOR-MIDBODY=3	3.43	9	OT		
061704	CURR SENSOR-PL MN R	1.09	64	OT		
061705	CURR SENSOR-PL MN C	1.09	65	OT		
061706	CURR SENSOR-LH ADP	1.06	22	OT		
061707	CURR SENSOR-LH ADP	1.06	23	OT		
061708	CURR SENSOR-RH ADP	1.06	23	OT		
061709	CURR SENSOR-RH ADP	1.06	23	OT		
061801	H202 CRYO ASY1A-QUES	11.82	7	FM		
061802	H202 CRYO ASY1B-QUES	11.91	9	FM		
061803	H202 CRYO ASY1A-H2CY	6.61	7	FM		
061804	H202 CRYO ASY1B-H2CY	6.66	9	FM		
061811	H202 CRYO ASY2A-QUES	11.89	8	FM		
061812	H202 CRYO ASY2B-QUES	11.91	9	FM		
061813	H202 CRYO ASY2A-H2CY	6.65	8	FM		
061814	H202 CRYO ASY2B-H2CY	6.66	9	FM		
062101	MTR CNTL ASSY FWD =1	3.92	22	W1		
062102	MTR CNTL ASSY FWD =2	3.63	23	W2		
062103	MTR CNTL ASSY FWD =3	4.94	24	W3		
062201	MTR CNTL ASSY MID =1	11.88	44	FM		
062202	MTR CNTL ASSY MID =2	12.34	45	FM		
062203	MTR CNTL ASSY MID =3	10.33	44	FM		
062204	MTR CNTL ASSY MID =4	12.20	45	FM		
062301	MTR CNTL ASSY AFT =1	8.90	63	F4		
062302	MTR CNTL ASSY AFT =2	8.39	64	F5		
062303	MTR CNTL ASSY AFT =3	15.12	65	F6		
062401	LOAD CNTL ASSY FWD1	23.61	32	W1		
062402	LOAD CNTL ASSY FWD2	25.80	33	W2		
062403	LOAD CNTL ASSY FWD3	25.42	34	W3		
062501	LOAD CNTL ASSY AFT1	70.54	84	F4		
062502	LOAD CNTL ASSY AFT2	70.95	85	F5		
062503	LOAD CNTL ASSY AFT3	77.89	86	F6		
062601	PCA FWD =1	94.83	22	W1		
062602	PCA FWD =2	39.94	23	W2		
062603	PCA FWD =3	43.96	24	W3		
062701	PCA MID =1	40.10	47	FM		
062702	PCA MID =2	47.75	48	FM		
062703	PCA MID =3	32.53	49	FM		
062801	PCA AFT =1	26.00	72	F4		
062802	PCA AFT =2	28.38	73	F5		
062803	PCA AFT =3	25.90	74	F6		
062804	PCA AFT =4	25.79	60	F4		
062805	PCA AFT =5	30.13	61	F5		
062806	PCA AFT =6	19.10	62	F6		
070101	GPC CPU#1-RUN	313.00	31	A1		
070102	GPC CPU#2-RUN	313.00	31	A2		

Figure 6.4-16. - Continued

070103	GPC CPU#3-RUN	313.00	*	31	A3
070104	GPC CPU#4-RUN	313.00	*	31	A1
070105	GPC CPU#5-RUN	313.00	*	31	A2
070201	GPC IOP#1-RUN	340.00		31	A1
070202	GPC IOP#2-RUN	340.00		31	A2
070203	GPC IOP#3-RUN	340.00	*	31	A3
070204	GPC IOP#4-RUN	340.00		31	A1
070205	GPC IOP#5-RUN	340.00	*	31	A2
070301	MDM FF1	58.90		288	W1
070302	MDM FF2	60.00		29	W2
070303	MDM FF3	55.50		30	W3
070304	MDM FF4	58.60		29	W2
070401	MDM FA1	54.80		66	F4
070402	MDM FA2	54.20		67	F5
070403	MDM FA3	55.60		68	F6
070404	MDM FA4	56.20		68	F6
070901	MM -1 TAPE OPER	19.36	*	22	W1
070902	MM -2 TAPE OPER	19.36	*	22	W2
071001	MDM OFI 1	46.80		19	W1
071002	MDM OFI 2	46.80		19	W2
071003	MDM OFI 3	47.40		21	W3
071004	MDM OFI 4 FLT DECK	40.40		21	W3
071101	MDM OAI 1	41.30		66	F4
071102	MDM OAI 2	42.10		67	F5
071103	MDM OAI 3	42.70		68	F6
071401	MDM PL 1	54.40		28	W1
071402	MDM PL 2	56.90		29	W2
075001	GPC CNTLR 1 PS A	6.89		31	A1
075002	GPC CNTLR 1 PS B	6.89		31	A1
075003	GPC CNTLR 2 PS A	6.89		31	A2
075004	GPC CNTLR 2 PS B	6.89		31	A2
075005	GPC CNTLR 3 PS A	6.89		31	A2
075006	GPC CNTLR 3 PS B	1.32		31	A2
200602	LH2 TB F+D VL OP SOL	37.49		84	OT
200610	LH2 HI PT BLD VALVE	37.49		84	OT
200900	LH2 TOP VLV OP SOL	37.49		84	OT
201601	LC2 MANF REPRS VL 1	37.48		86	OT
201602	LC2 MANF REPRS VL 2	37.48		86	OT
201901	LH2 MANF REPRS VL 1	37.50		85	OT
201902	LH2 MANF REPRS VL 2	37.50		85	OT
202002	ENG 1 HE INT OUT VLV	37.49		84	OT
202003	ENG 2 HE INT IN VLV	38.12		85	OT
202006	ENG 3 HE INT OUT VLV	37.46		86	OT
202103	ENG 2 HE SPY ISO VLA	37.50		85	OT
202104	ENG 2 HE SPY ISO VLB	37.81		68	OT
203701	ENG 1 FASCOS SYS A	22.74		63	OT
203702	ENG 1 FASCOS SYS B	22.73		64	OT
203703	ENG 1 FASCOS SYS C	22.73		65	OT
203704	ENG 2 FASCOS SYS A	22.74		63	OT
203705	ENG 2 FASCOS SYS B	22.73		64	OT
203706	ENG 2 FASCOS SYS C	22.73		65	OT
203707	ENG 3 FASCOS SYS A	22.74		63	OT
203708	ENG 3 FASCOS SYS B	22.73		64	OT
203709	ENG 3 FASCOS SYS C	22.73		65	OT
210701	LP ACT CMRL INST/LOG	6.99		72	OT
210702	LP STB CMRL INST/LOG	7.00		73	OT
210703	RP ACT CMRL INST/LOG	7.00		74	OT

Figure 6.4-16. - Continued

210704	RP STB GMBL INST/LOG	6.99		72	OT
211501	BIPROP VL1 LP POS ID	1.40		72	OT
211502	BIPROP VL2 LP POS ID	1.40		73	OT
211503	BIPROP VL1 RP POS ID	1.40		72	OT
211504	BIPROP VL2 RP POS ID	1.40		74	OT
212106	TK ISC/XFD VL TLKBCN	.30		72	AC
212401	QUAN GAGE TOT-LP-OPR	9.16	*	78	OT
212402	QUAN GAGE TOT-RP-OPR	9.16	*	80	OT
215101	GSE SR PN HT A-43-LP	9.77		72	OT
215102	ENG SR PN HT A-37-LP	10.71		72	OT
215103	OME COVER HT A-53-LP	37.91		72	OT
215104	Y-WB OTBD HT A-27-LP	26.86		72	OT
215105	Y-WB INBD HT A-33-LP	23.03		72	OT
215106	Y-WB UPR HT A-31-LP	6.06		72	OT
215107	CT LN WB HT A1-21-LP	71.84		72	OT
215108	CT LN WB HT A2-21-LP	75.64		72	OT
215109	CT LN WB HT A3-21-LP	37.80		72	OT
215111	CT LN WB HT A4-21-LP	72.53		72	OT
215112	RCS HSNG HT A1-41-LP	22.71		72	OT
215113	RCS HSNG HT A2-41-LP	19.60		72	OT
215301	GSE SR PN HT A-44-RP	9.77		73	OT
215302	ENG SR PN HT A-38-RP	10.71		73	OT
215303	OME COVER HT A-54-RP	37.91		73	OT
215304	Y-WB OTBD HT A-28-RP	26.86		73	OT
215305	Y-WB INBD HT A-34-RP	23.03		73	OT
215306	Y-WB UPR HT A-32-RP	6.06		73	OT
215307	CT LN WB HY A1-22-RP	71.84		73	OT
215308	CT LN WB HT A2-22-RP	75.64		73	OT
215309	CT LN WB HT A3-22-RP	37.80		73	OT
215311	CT LN WB HT A4-22-RP	72.53		73	OT
215312	RCS HSNG HT A1-42-RP	22.71		73	OT
215313	RCS HSNG HT A2-42-RP	19.60		73	OT
217001	XFD OX/FU FLXL HTA-L	10.70		72	OT
217003	XFD OX/FU FLXL HTA-R	10.70		72	OT
217101	XFD OX/FU LNE HT-A-L	7.44		72	OT
217103	XFD OX/FU LNE HT-A-R	7.44		72	OT
217105	XFD OX/FU LNE HT-A-C	9.77		72	CT
217201	FU HIPT BLDLN HT-A-A	4.19		72	OT
217203	FU HIPT BLDLN HT-A-M	6.74		72	OT
217301	OX HIPT BLDLN HT-A-A	4.65		72	OT
217303	OX HIPT BLDLN HT-A-M	6.98		72	OT
217401	LOPT OX/FU DRLN HTA-L	1.40		72	OT
217403	LOPT OX/FU DRLN HTA-R	1.40		72	OT
220101	FWD THRUSTER F1F(-X)	.10		22	OT
220105	FWD THRUSTER F2F(-X)	.10		23	OT
220109	FWD THRUSTER F3F(-X)	.10		24	OT
220111	FWD THRUSTER F3L(+Y)	.10		24	OT
220201	AFT THRUSTER F1R(-Y)	.14		78	OT
220204	AFT THRUSTER F2R(-Y)	.14		80	OT
220207	AFT THRUSTER F3R(-Y)	.14		79	OT
220214	AFT THRUSTER L1L(+Y)	.14		78	OT
220217	AFT THRUSTER L2L(+Y)	.14		80	OT
220221	AFT THRUSTER L3L(+Y)	.14		79	OT
225101	FWD RCS HT-ENG F1F-X	4.44	20.66	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.51	7.04	7	OT
225103	FWD RCS HT-ENG F1U+Z	3.53	16.44	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.92	8.91	7	OT

Figure 6.4-16. - Continued

225105	FWD	RCS	HT-ENG	F2F-X	4.51	20.98	8	OT
225106	FWD	RCS	HT-ENG	F2F-X	1.72	8.01	8	OT
225107	FWD	RCS	HT-ENG	F2U+Z	3.47	16.12	8	OT
225108	FWD	RCS	HT-ENG	F2D-Z	2.41	11.21	8	OT
225109	FWD	RCS	HT-ENG	F3F-X	3.84	17.85	8	OT
225110	FWD	RCS	HT-ENG	F3L+Y	1.55	7.19	8	OT
225111	FWD	RCS	HT-ENG	F3U+Z	3.42	15.90	8	OT
225112	FWD	RCS	HT-ENG	F3D-Z	1.92	8.91	8	OT
225113	FWD	RCS	HT-ENG	F4R-Y	1.58	7.33	9	OT
225114	FWD	RCS	HT-ENG	F4D-Z	1.92	8.91	9	OT
225201	AFT	RCS	HT-ENG	R1R-Y	.72	3.35	85	OT
225202	AFT	RCS	HT-ENG	R2R-Y	.72	3.35	84	OT
225203	AFT	RCS	HT-ENG	R3R-Y	.72	3.35	86	OT
225204	AFT	RCS	HT-ENG	R4R-Y	.72	3.35	86	OT
225205	AFT	RCS	HT-ENG	R2D-Z	.63	2.92	84	OT
225206	AFT	RCS	HT-ENG	R3D-Z	.63	2.92	86	OT
225207	AFT	RCS	HT-ENG	R4D-Z	.63	2.92	86	OT
225208	AFT	RCS	HT-ENG	R1U+Z	1.07	4.98	85	OT
225209	AFT	RCS	HT-ENG	R2U+Z	1.07	4.98	84	OT
225210	AFT	RCS	HT-ENG	R4U+Z	1.07	4.98	86	OT
225211	AFT	RCS	HT-ENG	R1A+X	1.07	3.31	85	OT
225212	AFT	RCS	HT-ENG	R3A+X	2.37	7.34	86	OT
225301	AFT	RCS	HT-ENG	L1L+Y	.72	3.35	85	OT
225302	AFT	RCS	HT-ENG	L2L+Y	.72	3.35	84	OT
225303	AFT	RCS	HT-ENG	L3L+Y	.72	3.35	86	OT
225304	AFT	RCS	HT-ENG	L4L+Y	.72	3.35	86	OT
225305	AFT	RCS	HT-ENG	L2D-Z	.63	2.92	84	OT
225306	AFT	RCS	HT-ENG	L3D-Z	.63	2.92	86	OT
225307	AFT	RCS	HT-ENG	L4D-Z	.63	2.92	86	OT
225308	AFT	RCS	HT-ENG	L1U+Z	1.07	4.98	85	OT
225309	AFT	RCS	HT-ENG	L2U+Z	1.07	4.98	84	OT
225310	AFT	RCS	HT-ENG	L4U+Z	1.07	4.98	86	OT
225311	AFT	RCS	HT-ENG	L1A+X	1.07	3.31	85	OT
225312	AFT	RCS	HT-ENG	L3A+X	2.37	7.34	86	OT
225401	FWD	VRN	HT-ENG	F5R	1.21	11.16	9	OT
225402	FWD	VRN	HT-ENG	F5L	1.06	6.77	9	OT
225403	AFT	VRN	HT-ENG	R5D-Z	.84	7.75	86	OT
225404	AFT	VRN	HT-ENG	R5R-Y	3.95	36.60	86	OT
225405	AFT	VRN	HT-ENG	L5D-Z	.84	7.75	86	OT
225406	AFT	VRN	HT-ENG	L5L+Y	3.95	36.60	86	OT
300201	FCP	-1	U2	FLOWMETER	6.12		47	OT
300202	FCP	-2	U2	FLOWMETER	6.23		48	OT
300203	FCP	-3	U2	FLOWMETER	6.27		49	OT
300301	FCP	-1	H2	FLOWMETER	6.12		47	OT
300302	FCP	-2	H2	FLOWMETER	6.23		48	OT
300303	FCP	-3	H2	FLOWMETER	6.27		49	OT
300401	FCP1	EL	CTL-ORBT		4.90		38	OT
300402	FCP2	EL	CTL-ORBT		4.89		39	OT
300403	FCP3	EL	CTL-ORBT		4.80		40	OT
300501	FCP1	PMP+H2O	SENSOR		236.08		201	OT
300502	FCP2	PMP+H2O	SENSOR		236.34		202	OT
300503	FCP3	PMP+H2O	SENSOR		240.02		203	OT
305101	GO2	PRG	LNE	HTR AUT	40.70		48	OT
305201	GH2	PRG	LNE	HTR AUT	51.60		48	OT
305301	H2O	VENT	LN	HTR A	.44	5.00	47	OT
305401	FCP1	H2O	RLF	VL HT A	.17	5.08	47	OT
305403	FCP2	H2O	RLF	VL HT A	.17	5.08	47	OT

Figure 6.4-16. - Continued

305405	FLP3 H2O RLF VL HT A	3.17	5.08	47	OT
305406	H2O NOZ RARDEL HT B	2.84	49.83	42	OT
305702	H2O NOZ ORIFICE HT B	23.99	49.98	49	OT
310301	O2 TNK1 SIG COND QTY	2.26		42	OT
310302	H2 TNK1 SIG COND QTY	2.26		41	OT
310303	O2 TNK2 SIG COND QTY	2.26		41	OT
310304	H2 TNK2 SIG COND QTY	2.46		7	OT
311901	H2 TANK 1 HEATER A	96.50		9	OT
311902	H2 TANK 1 HEATER B	97.20		9	OT
311903	H2 TANK 2 HEATER A	98.80		8	OT
311904	H2 TANK 2 HEATER B	99.30		66	FN
320301	APU1 CMTLR-OPERATE	6.75		67	FS
320302	APU2 CMTLR-OPERATE	6.75		68	FS
320303	APU3 CMTLR-OPERATE	6.75		68	FS
325201	FUEL FEEDLINE HTR 1A	12.95	12.13	84	OT
325202	FUEL FEEDLINE HTR 2A	12.95	19.32	85	OT
325203	FUEL FEEDLINE HTR 3A	12.95	21.94	86	OT
325204	FUEL FEEDLINE HTR 1A	12.95	19.11	84	OT
325205	FUEL SERVLINE HTR 1A	9.05	18.97	85	OT
325206	FUEL SERVLINE HTR 2A	11.16	17.31	86	OT
325207	FUEL SERVLINE HTR 3A	7.79	18.96	84	OT
325208	FUEL DRN LINE HTR 1A	10.12	18.98	85	OT
325209	FUEL DRN LINE HTR 2A	5.58	17.07	86	OT
325210	FUEL DRN LINE HTR 3A	32.79	57.73	84	OT
325211	TURB GAS GEN HTR 1A	32.79	57.73	85	OT
325212	TURB GAS GEN HTR 2A	32.79	57.73	86	OT
325213	TURB GAS GEN HTR 3A	10.95	15.94	84	OT
325214	OIL LINE HTR 1A	11.37	16.02	85	OT
325215	OIL LINE HTR 2A	11.63	16.38	86	OT
325216	OIL LINE HTR 3A	9.90	35.00	75	OT
325217	APU 1 PRI H2O HTR 1A	2.87	35.00	76	OT
325218	APU 2 PRI H2O HTR 1A	9.38	35.00	77	OT
325219	APU 3 PRI H2O HTR 1A	10.52	35.00	75	OT
325220	APU 1 SEC H2O HTR 2A	4.79	35.00	76	OT
325221	APU 2 SEC H2O HTR 2A	4.37	35.00	77	OT
325222	APU 3 SEC H2O HTR 2A	7.94	35.00	75	OT
325223	GG H2O TK LN HT 504A	646.16	20.00	203	HX
325224	GG H2O TK LN HT 503A	4.42		214	AC
325225	CABIN FAN A	5.23		214	AC
325226	CAB AIR TEMP CNT PRI	4.84		212	AC
325227	CAB AIR TMP CN EL-PR	37.25		202	AC
325228	CAB AIR SIGNAL COND	2.35		217	AC
325229	ARS HUMIDITY SEP B	.72		16	AC
325230	ARS HUM SEP SIG CND	.72		17	AC
325231	PP02 CMTLR-SYS 1	4.85	50.00	16	AC
325232	PP02 CMTLR-SYS 2	4.85	50.00	17	AC
325233	O2 CONTROL VLV-SYS 1	.72		16	AC
325234	O2 CONTROL VLV-SYS 2	.72		17	AC
325235	CABIN PRESS SENSOR	2.07		16	AC
325236	CAB PRES DECAY SENSR	1.03		17	AC
325237	O2 FLOW SENSOR-SYS 1	1.03		16	AC
325238	O2 FLOW SENSOR-SYS 2	1.03		17	AC
325239	H2 FLOW SENSOR-SYS 1	1.03		16	AC
325240	H2 FLOW SENSOR-SYS 2	.83		17	AC
325241	PP02 SENSOR-SYS 1	.83		17	AC
325242	PP02 SENSOR-SYS 2	.83		202	AI
325243	PP02 SENSOR-SYS 3	219.61			
325244	AVION FAN-BAY 1 (B)				

Figure 6.4-16. - Continued

400803	AVION FAN-BAY 2 (A)	213.07		202	A2			
400806	AVION FAN-BAY 1 (B)	219.71		201	A1	168.00	163.00	
400901	AVION BAY 1 SIG COND	3.14		218	AC			2.408
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.808		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.508	
401001	SMOKE DT SHH-L FLT-D	6.71		16	OT			
401002	SMOKE DT SHH-R FLT-D	6.71		16	OT			
401003	S D SHSR A - BAY 1	6.71		18	OT			
401004	S D SHSR B - BAY 1	6.71		17	OT			
401005	S D SHSR A - BAY 2	6.71		16	OT			
401006	S D SHSR C - BAY 2	6.75		18	OT			
401007	S D SHSR A - BAY 3	6.71		17	OT			
401008	S D SHSR B - BAY 3	6.71		16	OT			
401009	S D SHSR CACTA	6.75		18	OT			
401102	IMU FAN B	63.53		202	WC		98.60	
401200	IMU FAN SIG COND	2.35		218	AC			1.808
401303	H2O PUMP LOOP 2	250.88		203	WC			191.80
401501	H2O BYPASS CN SC-PRI	7.71		217	AC			5.90A
401502	H2O BYPASS CN SC-SEC	7.72		211	AC	5.90A		
402501	FREON PMP LP 1-A ASC	489.17	*	203	FP	374.00		
402903	FREON PMP LP 2-A ASC	489.20	*	203	FP			374.00
403601	FREON COOL LP1 INSTR	6.54		215	OT	5.008		
403602	FREON COOL LP2 INSTR	6.54		218	OT			5.008
403701	FES CONTROLLER PRI A	7.65		86	OT			
403801	FES HI LD PLSR V-PRI	29.18		89	OT			
403811	FES HI LD PLSR V-PRI	29.18		89	OT			
403901	FES TOP*G PLSR V-PRI	29.18		89	OT			
403921	TPNG V HLDNG COIL-PR	1.73		89	OT			
406006	VACUUM VNT NOZ HTR	11.40		5	OT			
408101	PRI FWTR LN HTA-TS6	1.53	7.24	84	OT			
408103	PRI FWTR LN HTA-TS6	3.02	14.26	84	OT			
408105	PRI FWTR LN HTA-TS7	7.75	15.10	47	OT			
408107	PRI FWTR LN HTA-TS5	2.79	6.52	84	OT			
408201	SEC FWTR LN HTA-TS11	1.01	4.78	86	OT			
408203	SEC FWTR LN HTA-TS12	2.87	13.56	86	OT			
408205	SEC FWTR LN HTA-TS13	9.43	18.46	49	OT			
408207	SEC FWTR LN HTA-TS3	3.95	8.17	86	OT			
409001	TOP*G DUCT HTR1 SEC1	46.53	12.28	87	OT			
409101	TOP*G DUCT HTR1 SEC2	116.26	24.81	47	OT			
409201	TOP*G DUCT HTR1 SEC3	26.30	41.88	84	OT			
409301	TOP*G DUCT HTR1 SEC4	26.30	40.59	84	OT			
409401	SONIC LET NOZ HTR 1A	11.25	45.02	84	OT			
409501	SONIC RHT NOZ HTR 2A	11.12	45.02	85	OT			
500801	RESVOIR #1 VOL SHSR	1.83		212	OT	1.408		
500802	RESVOIR #2 VOL SHSR	1.83		215	OT		1.408	
500803	RESVOIR #3 VOL SHSR	1.83		218	OT			1.408
503701	H2O BLR1 CNT LOGIC A	4.71		217	OT			2.60A
503703	H2O BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H2O BLP3 CNT LOGIC A	3.79		214	OT		2.90A	
503801	H2O BOILER 1 CNTL A	.79		65	OT			
503803	H2O BOILER 2 CNTL A	.69		63	OT			
503805	H2O BOILER 3 CNTL A	.79		64	OT			
505301	WSR TK/BOILER HTR 1A	6.05	3.81	65	OT			
505303	WSR TK/BOILER HTR 2A	6.38	5.42	63	OT			
505305	WSR TK/BOILER HTR 3A	7.67	4.83	64	OT			
505401	WSR VENT NOZ HTR 1A	73.60		65	OT			
505403	WSR VENT NOZ HTR 2A	61.50		63	OT			

Figure 6.4-16. - Continued

505405	WSB VENT NOZZ HTR 3A	59.10	64	QT			
522701	BRK/SKID CNIL BOX A	18.11	30	A1			
522702	BRK/SKID CNIL BOX B	18.14	29	A2			
600301	ESCAPE SUIT VT ASY L	96.65	11	AC			
600302	ESCAPE SUIT VT ASY R	96.11	10	AC			
			TOTAL INVERTER WATTS	=	2058.24	1223.37	1944.63
			TOTAL 3 PHASE WATTS	=	958.60	591.00	1245.40
			TOTAL A PHASE WATTS	=	250.60	155.80	12.80
			TOTAL B PHASE WATTS	=	201.40	42.60	68.40
			TOTAL C PHASE WATTS	=	163.00	160.00	160.00

Figure 6.4-16. - Concluded

TOTAL WATTS = 20076.93

END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 052:48:00.0

Figure 6.4-17.- Vehicle configuration at 2 days 5 hours 59 minutes 14 seconds (Entry Interface)

765

LISTING OF ALL ACTIVE COMPONENTS AT TIME 051:59:14.3

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

OPRITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-17. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU -1 OPERATE	118.92			28	WC			
010102	IMU -2 OPERATE	118.93	*		29	WC			
010103	IMU -3 OPERATE	118.93	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.60			17	GT			
010401	ADTA -1	64.00			16	A1			
010402	ADTA -2	64.00			17	A2			
010403	ADTA -3	64.00			18	A1			
010404	ADTA -4	64.00			18	A2			
010601	ATVC -1 PWR SUP-OPER	38.90	*		66	F4			
010602	ATVC -2 PWR SUP-OPER	38.90	*		67	F5			
010603	ATVC -3 PWR SUP-OPER	38.90	*		68	F6			
010604	ATVC -4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC -1 ISO VLV DRVR	.77			65	F4			
010812	ATVC -2 ISO VLV DRVR	.77			63	F5			
010813	ATVC -3 ISO VLV DRVR	.77			64	F6			
010814	ATVC -4 ISO VLV DRVR	.77			76	F6			
010821	ATVC -1 ACTS-OPER	3.30	*		66	OT			
010822	ATVC -2 ACTS-OPER	3.30	*		67	OT			
010823	ATVC -3 ACTS-OPER	3.30	*		68	OT			
010824	ATVC -4 ACTS-OPER	3.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	52.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	52.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	52.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	52.50	*		80	F6			
011001	ASA -1 IVD/BF-OPER	2.50	*		68	F4			
011002	ASA -2 IVD/BF-OPER	2.50	*		66	F5			
011003	ASA -3 IVD/BF-OPER	2.50	*		67	F6			
011004	ASA -4 IVD-OPER	2.50	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	31.87	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	31.87	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	31.86	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	31.31	*		80	OT			
011101	RJDF -1A PRI RCS	10.60			23	L1			
011102	RJDF -1B PRI RCS	10.60			22	L1			
011103	RJDF -2A PRI RCS	10.60			24	U2			
011104	RJDF -2B PRI/VN RCS	10.60			24	U2			
011201	RJDA -1A PRI RCS	13.20			80	F4			
011202	RJDA -1B PRI/VN RCS	15.60			78	F4			
011203	RJDA -2A PRI RCS	15.20			80	F6			
011204	RJDA -2B PRI/VN RCS	15.60			79	F6			
011301	RGA -1 OPR	24.47	*		78	FA			
011302	RGA -2 OPR	24.76	*		64	FA			
011303	RGA -3 OPR	24.94	*		49	FA			
011304	RGA -4 OPR	24.66	*		46	FA			
011401	ACCEL ASSY -1 - OPER	2.40			16	A1			
011402	ACCEL ASSY -2 - OPER	2.40			17	A2			
011403	ACCEL ASSY -3 - OPER	2.40			30	A1			
011404	ACCEL ASSY -4 - OPER	2.40			29	AC			
011601	THC-LH	7.00			19	AC			
011701	RHC-LH	4.67			19	AC			
011702	RHC-RH	4.19			20	AC			
011801	RPTA-LH	1.19			19	AC			
011802	RPTA-RH	1.20			20	AC			

Figure 6.4-17. - Continued

011901	SRTC-LH	1.59		19	AC
011902	SRTC-RH	1.60		20	AC
020602	NTWK STG PROCESSOR 2	27.95		34	W3
021302	S-BND XPNDR=2-DIRECT	58.19	*	34	W3
021401	S-BND PWR AMP 1-SBY	20.51		23	W3
021402	S-BND PWR AMP 2-OPR	383.27	*	24	W3
021501	S-BD PREAMP 1-SBY	12.71		33	W3
021502	S-BD PREAMP 2-OPR	18.64		34	W3
021600	S-BND ANT S-ASY-QES	.55	*	33	A3
021701	TACAN =1 SEARCH	209.15	*	211	A1
021702	TACAN =2 SEARCH	209.15	*	216	A2
021703	TACAN =3 SEARCH	209.49	*	219	A3
021901	MSBLS DCDR ASSY=1	54.74		16	A1
021902	MSBLS DCDR ASSY=2	57.15		17	A2
021903	MSBLS DCDR ASSY=3	53.13		18	A2
022001	MSBLS RF ASSY=1	15.44		16	A1
022002	MSBLS RF ASSY=2	16.10		17	A2
022003	MSBLS RF ASSY=3	15.01		18	A2
022101	RADAR ALTIMETER =1	23.06		16	W1
022102	RADAR ALTIMETER =2	23.14		17	W2
022201	UHF XCVR-XMT/REC	56.31	*	10	AC
024101	AUDIO CENTER 1	38.45		42	W1
024201	AUDIO TERM UN-PLT RT	3.36		42	AC
024202	AUDIO TERM UN-CDR LT	3.38		41	AC
024203	AUDIO TERM UNIT-HSS	3.41		16	AC
024204	AUDIO TERM UNIT-PS	3.58		15	AC
024801	AUDIO INTF UNIT-PLT	.67		42	AC
024802	AUDIO INTF UNIT-CHDR	.68		41	AC
024910	MULTIPLE HOSET ADPTR	.68		41	AC
030101	ADI =1 FWD LH	16.99		19	AC
030102	ADI =2 FWD RH	17.08		20	AC
030201	HSI =1	26.77		16	AC
030202	HSI =2	26.86		17	AC
030301	AMI =1	7.02		16	AC
030302	AMI =2	7.04		17	AC
030401	ALPHA MACH EL UNIT 1	31.48		16	HX
030402	ALPHA MACH EL UNIT 2	31.59		17	HX
030501	AVVI =1	7.02		16	AC
030502	AVVI =2	7.04		17	AC
030601	ALT VER VEL EL UN =1	24.66		16	HX
030602	ALT VER VEL EL UN =2	24.75	*	17	HX
030705	TAPE MTR M1(HYD PR)	9.06		17	AC
030706	TAPE MTR M2(HYD QTY)	9.06		17	AC
030707	TAPE MTR M3(APU)	9.06		17	AC
030708	TAPE MTR M4(APU OIL)	6.04		17	AC
031300	SPI	17.40		16	AC
031400	OHS/RCS PROP QTY IND	4.82		18	AC
031501	C-W PWR SUP A-STBY	20.66		41	A3
031502	C-W PWR SUP B-STBY	13.07		42	A3
031701	MISSION TIMER =1 FWD	3.51		16	AC
031702	MISSION TIMER =2 AFT	3.62		17	AC
031801	EVENT TIMER =1 FWD	3.02		17	AC
031802	EVENT TIMER =2 AFT	3.01		16	AC
032201	ODU =1 FWD LH	120.00		19	HX
032202	ODU =2 FWD RH	120.00		20	HX
032701	CRT DU =1 - LF	85.06		22	HX
032702	CRT DU =2 - RF	85.08		23	HX

Figure 6.4-17. - Continued

032703	CRT DU =3 - CF	84.98		24	HX			
032801	DEU =1	202.00		22	HX			
032802	DEU =2	202.00		23	HX			
032803	DEU =3	202.00		24	HX			
033101	PANEL LTS - LEFT/CTR	255.31		211	AC	195.00A		
033102	PANEL LTS - LEFT/OVHD	231.37		212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	116.48	67.00	215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	172.55		214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	75.56		218	AC			57.80B
033202	INSTR LTS - OVERHEAD	35.95		215	AC		27.50B	
033203	INSTR LTS - RIGHT	65.07		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.50B		
034202	CLARSHLD FLDLT-LEFT	7.96	*	41	AC			
034203	CLARSHLD FLDLT-RGHT	7.93	*	42	AC			
034205	RHT OVERHEAD FLDLT A	22.82		18	AC			
035600	C+W ANNUN ASSY-OPR	7.72	*	43	AI			
037200	CICU - OPER	6.71	*	43	AI			
037301	ACA =1	33.09	35.30	16	AC			
037302	ACA =2/3	67.04	35.20	17	AC			
037303	ACA =4/5	55.26	36.70	18	AC			
037401	ANNUN 1	12.45	30.00	16	AC			
037402	ANNUN 2/3	23.24	30.00	17	AC			
037403	ANNUN 4/5	19.59	30.00	18	AC			
040101	PCM MASTER UNIT =1	55.00		30	W1			
040401	OPS-1 RECORDER-REPLY	15.66	*	28	W2			
040402	OPS-2 RECORDER-REPLY	51.61	*	29	W2			
040403	PAYLO RECORDER-REPLY	51.61	*	30	W1			
040501	DED SIG CND OF1- FWD	22.80		19	W2			
040502	DED SIG CND OF2- FWD	32.60		20	W2			
040503	DED SIG CND OF3- FWD	26.80		20	W3			
040601	DED SIG CND OA1- AFT	36.20		66	F4			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPER	29.60		43	W4			
041201	DSC OL1 OMS/RCS	23.30		78	OT			
041202	DSC OL2 OMS/RCS	21.40		80	OT			
041203	DSC OR1 OMS/RCS	23.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WDRND S/C =1 (RAY4)	.38		63	OT			
041602	WDRND S/C =2 (RAY4)	.38		63	OT			
041603	WDRND S/C =3 (RAY4)	.38		63	OT			
041604	WDRND S/C =4 (RAY4)	.38		63	OT			
041701	WDRND S/C =1 (RAY5)	.38		64	OT			
041702	WDRND S/C =2 (RAY5)	.38		64	OT			
050100	PWR DIST ASSY FWD	10.18		12	DW			
050201	PWR DIST ASSY =1 MID	9.46		44	D1			
050202	PWR DIST ASSY =2 MID	9.46		44	D2			
050203	PWR DIST ASSY =3 MID	9.46		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FWD =1-SDF1	22.20		12	DW			
050402	DSC FWD =2-SDF2	22.20		12	DW			
050403	DSC FWD =3-SDF3	22.50		12	DW			
050501	DSC UNIT #1 - SDL1	16.60		44	D1			
050502	DSC UNIT #2 - SDL2	24.70		44	D1			

Figure 6.4-17. - Continued

050503	DSC UNIT #3 - SDL3	16.60		44	D1
050504	DSC UNIT #4 - SDL4	24.70		44	D1
050505	DSC UNIT #5 - SDL5	46.70		44	D1
050506	DSC UNIT #1 - SDR1	16.60		44	D2
050507	DSC UNIT #2 - SDR2	24.70		44	D2
050508	DSC UNIT #3 - SDR3	16.60		44	D2
050509	DSC UNIT #4 - SDR4	46.80		44	D2
050601	DSC UNIT #1 - SDC1	16.60		44	D3
050602	DSC UNIT #2 - SDC2	23.90		44	D3
050603	DSC UNIT #3 - SDC3	16.60		44	D3
050604	DSC UNIT #4 - SDC4	17.70		44	D3
050605	DSC UNIT #5 - SDC5	16.60		44	D3
050701	WB FDM 1A (FME1)-FWD	12.73	50.00	12	DW
050702	WB FDM 1B (FME1)-FWD	12.73	50.00	12	DW
050703	WB FDM 2A (FME2)-FWD	25.46		12	DW
050704	WB FDM 2B (FME2)-FWD	25.46		12	DW
050705	WB FDM 3A (FME3)-FWD	25.46		12	DW
050706	WB FDM 3B (FME3)-FWD	25.46		12	DW
050801	WDBND FDM UN1-MID L1	23.72		47	D1
050802	WDBND FDM UN1-MID L1	24.31		48	D1
050803	WDBND FDM UN2-MID L1	23.72		47	D1
050804	WDBND FDM UN2-MID L1	24.31		48	D1
050805	WDBND FDM UN1-MID R2	23.72		47	D2
050806	WDBND FDM UN1-MID R2	24.31		48	D2
050807	WDBND FDM UN2-MID R2	23.72		47	D2
050808	WDBND FDM UN2-MID R2	24.31		48	D2
050812	WDBND FDM UN1-MID L3	23.72		47	D3
050820	FREON FLOWTR-MID LT3	1.20		47	D3
050831	LOAD SEN ACCEL-1 FWD	1.56		12	DW
050832	LOAD SEN ACCEL-2 FWD	1.56		12	DW
050833	LOAD SEN ACCEL-HR 2	13.28		47	D2
050834	LOAD SEN ACCEL-HR 3	10.21		48	D2
050910	HDBND RCDR (HARS)	59.88		12	AC
050930	PCM RCDR-RCCD-SERIAL	57.03		12	DW
051011	WBSC FWD (A131)-100%	2.85		12	DW
051020	WBSC FWD (A132)-WBM	5.70		12	DW
051032	WBSC FWD (A133)-WBM	7.84		12	DW
051041	WBSC FWD (A134)-WBM	9.67		12	DW
051111	WBSC LM1 (A135)-WBM	2.72		48	D1
051112	WBSC LM1 (A135)-WBM	3.32		47	D1
051121	WBSC LM1 (A136)-WBM	3.40		48	D1
051122	WBSC LM1 (A136)-WBM	3.70		47	D1
051131	WBSC LM1 (A137)-WBM	5.15		48	D1
051132	WBSC LM1 (A137)-WBM	4.36		47	D1
051141	WBSC LM1 (A138)-WBM	3.79		48	D1
051142	WBSC LM1 (A138)-WBM	5.03		47	D1
051211	WBSC RM2 (A139)-WBM	2.72		48	D2
051212	WBSC RM2 (A139)-WBM	3.04		47	D2
051221	WBSC RM2 (A140)-WBM	3.11		48	D2
051222	WBSC RM2 (A141)-WBM	2.66		47	D2
051231	WBSC RM2 (A141)-WBM	4.77		48	D2
051232	WBSC RM2 (A141)-WBM	4.36		47	D2
051241	WBSC RM2 (A142)-WBM	3.11		48	D2
051242	WBSC RM2 (A142)-WBM	5.31		47	D2
051322	WBSC LM3 (A144)-WBM	6.64		47	D3
051332	WBSC LM3 (A145)-100%	2.66		47	D3
051333	WBSC LM3 (A145)-100%	3.11		48	D3

Figure 6.4-17. - Continued

051401	DC-DC	XDUCERS-FWD	15.37	47	OT
051402	DC-DC	XDUCERS-FWD	5.80	12	OT
051403	DC-DC	XDUCERS-FWD	5.88	47	OT
051404	DC-DC	XDUCERS-MID L1	29.03	47	OT
051405	DC-DC	XDUCERS-MID L1	7.78	47	OT
051406	DC-DC	XDUCERS-MID L1	6.46	48	OT
051407	DC-DC	XDUCERS-MID P2	27.33	47	OT
051408	DC-DC	XDUCERS-MID R2	1.90	47	OT
051409	DC-DC	XDUCERS-MID R2	3.50	48	OT
051411	DC-DC	XDUCERS-MID L3	1.76	47	OT
051412	DC-DC	XDUCERS-MID L3	37.57	47	OT
051501	SGSC	FWD (A161)-100%	23.52	12	DE
051502	SGSC	FWD (A161)-100%	16.70	12	DE
051503	SGSC	FWD (A161)-WBH	5.60	12	DE
051504	SGSC	FWD (A161)-WBH	15.28	12	DE
051611	SGSC	ML1 (A162)-100%	88.05	47	DI
051612	SGSC	ML1 (A162)-WBH	14.61	47	DI
051613	SGSC	ML1 (A162)-WBH	14.98	48	DI
051621	SGSC	ML1 (A163)-100%	62.15	47	DI
051622	SGSC	ML1 (A163)-WBH	29.95	47	DI
051623	SGSC	ML1 (A163)-WBH	7.51	47	DI
051624	SGSC	ML1 (A163)-100%	7.49	48	DI
051625	SGSC	ML1 (A163)-100%	29.22	47	DI
051631	SGSC	MR2 (A164)-100%	111.44	48	DI
051632	SGSC	MR2 (A164)-100%	22.46	48	DI
051641	SGSC	MR2 (A165)-100%	100.84	48	DI
051642	SGSC	MR2 (A165)-100%	37.44	48	DI
051651	SGSC	MR2 (A169)-100%	69.04	48	DI
051652	SGSC	MR2 (A169)-WBH	29.95	47	DI
051653	SGSC	MR2 (A169)-WBH	21.92	47	DI
051654	SGSC	MR2 (A169)-100%	29.95	48	DI
051661	SGSC	ML3 (A166)-100%	74.30	48	DI
051662	SGSC	ML3 (A166)-WBH	29.22	47	DI
051671	SGSC	ML3 (A167)-100%	68.35	48	DI
051672	SGSC	ML3 (A167)-WBH	43.83	47	DI
051673	SGSC	ML3 (A167)-100%	22.46	48	DI
051700	MDM	DF1 - FWD	53.90	12	DI
051801	MDM	DL1 - MID LEFT 1	10.00	44	DI
051802	MDM	DL2 - MID LEFT 1	50.20	44	DI
051803	MDM	DR1 - MID RIGHT 2	50.00	44	DI
051804	MDM	DR2 - MID RIGHT 2	52.80	44	DI
051805	MDM	DC1 - MID LEFT 3	49.10	44	DI
051806	MDM	DC2 - MID LEFT 3	52.50	44	DI
051900	S-RAND	FM XMTR-DF1	122.20	12	DI
052200	ARS	DF1 SIGNAL COND	8.10	21	OT
052300	ATCS	DF1 SIGNAL COND	1.96	21	OT
052401	DFI	FREON PUMP #1	306.06	20	OT
052500	3-AXIS	ACCEL	1.73	12	OT
053700	ACIP	PACKAGE	103.64	49	OT
053800	ACIP	PCM MASTER	19.55	49	OT
053900	ACIP	PCM SLAVE	11.73	49	OT
054000	ACIP	MINI DHE	19.55	49	OT
054010	INTF	CNTL MOD-ACIP	3.72	49	AC
060901	GRND	CMS INTEC UN. A	27.43	33	M1
061001	INV	DIST-CTL ASY1-DC	.58	41	A1
061002	INV	DIST-CTL ASY1-AC	2.75	20	A1
061003	INV	DIST-CTL ASY2-DC	.58	42	A2

6.20B

1.50A

234.00

2.10

Figure 6.4-17. - Continued

061004	INV DIST+CTL ASY2-AC	2.75		202	A2	2.10
061005	INV DIST+CTL ASY3-AC	2.75		203	A3	2.10
061006	INV DIST+CTL ASY3-AC	2.75		203	A3	2.10
061701	CURR SENSOR-HIDBDY=1	3.31		7	OT	
061702	CURR SENSOR-HIDBDY=2	3.36		8	OT	
061703	CURR SENSOR-HIDBDY=3	3.37		9	OT	
061704	CURR SENSOR-PL MN B	1.06		64	OT	
061705	CURR SENSOR-PL MN C	1.06		65	OT	
061706	CURR SENSOR-LH ADP	1.04		22	OT	
061707	CURR SENSOR-LH ADP	1.04		23	OT	
061708	CURR SENSOR-RH ADP	1.04		23	OT	
061709	CURR SENSOR-RH ADP	1.04		23	OT	
061801	H202 CRYO ASY1A-QUES	11.67		7	FM	
061802	H202 CRYO ASY1B-QUES	11.67		8	FM	
061811	H202 CRYO ASY2A-QUES	11.67		8	FM	
061812	H202 CRYO ASY2B-QUES	11.69		9	FM	
062001	PROX SNR EL PKG =1	10.46		217	A1	8.00A
062002	PROX SNR EL PKG =2	10.46		214	A2	8.00A
062101	MTR CNTL ASSY FWD =1	3.83	12.50	22	W1	
062102	MTR CNTL ASSY FWD =2	3.54	12.50	23	W2	
062103	MTR CNTL ASSY FWD =3	4.82	12.50	24	W3	
062201	MTR CNTL ASSY MID =1	11.65	22.80	44	FM	
062202	MTR CNTL ASSY MID =2	12.12	13.50	45	FM	
062203	MTR CNTL ASSY MID =3	10.13	20.20	44	FM	
062204	MTR CNTL ASSY MID =4	11.98	13.20	45	FM	
062301	MTR CNTL ASSY AFT =1	8.66	20.00	63	FM	
062302	MTR CNTL ASSY AFT =2	8.17	20.70	64	F5	
062303	MTR CNTL ASSY AFT =3	14.72	30.60	65	F6	
062401	LOAD CNTL ASSY FWD1	22.88	27.78	32	W1	
062402	LOAD CNTL ASSY FWD2	26.31	31.97	33	W2	
062403	LOAD CNTL ASSY FWD3	23.89	29.06	34	W3	
062501	LOAD CNTL ASSY AFT1	68.91	25.75	84	F4	
062502	LOAD CNTL ASSY AFT2	65.60	26.12	85	F5	
062503	LOAD CNTL ASSY AFT3	71.96	33.99	86	F6	
062601	PCA FWD =1	85.49	27.73	22	W1	
062602	PCA FWD =2	50.66	16.43	23	W2	
062603	PCA FWD =3	37.76	12.26	24	W3	
062701	PCA MID =1	18.22	35.01	47	FM	
062702	PCA MID =2	29.30	26.20	48	FM	
062703	PCA MID =3	29.94	26.63	49	FM	
062801	PCA AFT =1	26.76	32.77	72	F4	
062802	PCA AFT =2	23.23	28.43	73	F5	
062803	PCA AFT =3	23.06	28.19	74	F6	
062804	PCA AFT =4	28.61	34.94	60	F4	
062805	PCA AFT =5	32.44	39.61	61	F5	
062806	PCA AFT =6	19.89	18.43	62	F6	
070101	GPC CPU#1-RUN	313.00		31	A1	
070102	GPC CPU#2-RUN	313.00		32	A2	
070103	GPC CPU#3-RUN	313.00	*	33	A3	
070104	GPC CPU#4-RUN	313.00	*	34	A1	
070105	GPC CPU#5-RUN	313.00	*	35	A2	
070201	GPC IOP#1-RUN	340.00		36	A1	
070202	GPC IOP#2-RUN	340.00		37	A2	
070203	GPC IOP#3-RUN	340.00	*	38	A3	
070204	GPC IOP#4-RUN	340.00	*	39	A1	
070205	GPC IOP#5-RUN	340.00	*	40	A2	
070301	HDM FF1	58.90		28	W1	

Figure 6.4-17. - Continued

070302	MDM FF2	60.00			
070303	MDM FF3	55.50		29	W2
070304	MDM FF4	58.60		30	W3
070401	MDM FA1	54.80		29	W2
070402	MDM FA2	54.20		66	F4
070403	MDM FA3	55.60		67	F5
070404	MDM FA4	56.20		68	F6
070901	MM =1 TAPE OPER	18.90	*	68	F6
070902	MM =2 TAPE OPER	18.91	*	22	W1
071001	MDM OFI 1	46.80		23	W2
071002	MDM OFI 2	46.80		19	W1
071003	MDM OFI 3	47.40		19	W2
071004	MDM OFI 4 FLT DECK	40.40		21	W3
071101	MDM OAI 1	41.30		21	MC
071102	MDM OAI 2	42.10		66	F4
071103	MDM OAI 3	42.70		67	F5
071401	MDM PL 1	54.40		68	F6
071402	MDM PL 2	56.90		28	W1
075001	GPC CNTLR 1 PS A	6.72		29	W2
075002	GPC CNTLR 1 PS B	6.72		31	A1
075003	GPC CNTLR 2 PS A	6.72		31	A1
075004	GPC CNTLR 2 PS B	6.72		31	A2
075005	GPC CNTLR 3 PS A	6.72		31	A2
075006	GPC CNTLR 3 PS B	1.29		31	A2
200802	LH2 IB F+D VL OP SOL	36.43		84	OT
200810	LH2 HI PT PLD VALVE	36.43		84	OT
201001	LH2 TOP VLV OP SOL	36.43		84	OT
201002	LO2 MANF REPRS VL 1	36.45		84	OT
201003	LO2 MANF REPRS VL 2	36.45		86	OT
201901	LH2 MANF REPRS VL 1	36.45		86	OT
201902	LH2 MANF REPRS VL 2	36.46		85	OT
202002	ENG 1 HE INT OUT VLV	36.43		85	OT
202003	ENG 2 HE INT IN VLV	37.44		84	OT
202006	ENG 3 HE INT OUT VLV	36.45		45	OT
202103	ENG 2 HE SPY ISO VLA	36.46		86	OT
202104	ENG 2 HE SPY ISO VLB	36.77		85	OT
203600	ENG 2 PNEU XOVER VLV	36.45		68	OT
203701	ENG 1 FASCOS SYS A	22.13		66	OT
203702	ENG 1 FASCOS SYS B	22.14		63	OT
203703	ENG 1 FASCOS SYS C	22.12		64	OT
203704	ENG 2 FASCOS SYS A	22.13		65	OT
203705	ENG 2 FASCOS SYS B	22.14		63	OT
203706	ENG 2 FASCOS SYS C	22.12		64	OT
203707	ENG 3 FASCOS SYS A	22.13		65	OT
203708	ENG 3 FASCOS SYS B	22.14		63	OT
203709	ENG 3 FASCOS SYS C	22.12		64	OT
210701	LP ACT GMBL INST/LOG	6.81		72	OT
210702	LP STB GMBL INST/LOG	6.81		72	OT
210703	RP ACT GMBL INST/LOG	6.82		73	OT
210704	RP STB GMBL INST/LOG	6.81		74	OT
211501	BIPROP VL1 LP POS ID	1.36		72	OT
211502	BIPROP VL2 LP POS ID	1.36		72	OT
211503	BIPROP VL1 RP POS ID	1.35		73	OT
211504	BIPROP VL2 RP POS ID	1.36		72	OT
212106	TK ISO/XFD VL TLBUCK	8.29		74	OT
212401	QUAN GAGE TOT-LP-OPR	8.91	*	72	AC
212402	QUAN GAGE TOT-RP-OPR	8.90	*	78	OT
				80	OT

Figure 6.4-17. - Continued

215101	GSE SR PN HT A-43-LP	4.94	11.50	72	OT
215102	ENG SR PN HT A-37-LP	4.84	7.50	72	OT
215103	OME COVER HT A-53-LP	19.91	18.50	72	OT
215104	Y-WB OTBD HT A-27-LP	15.06	14.00	72	OT
215105	Y-WB INBD HT A-33-LP	11.30	10.50	72	OT
215107	CT LN WB HT A1-21-LP	36.40	18.00	72	OT
215108	CT LN WB HT A2-21-LP	38.32	18.00	72	OT
215109	CT LN WB HT A3-21-LP	39.15	18.00	72	OT
215111	CT LN WB HT A4-21-LP	39.28	18.00	72	OT
215112	RCS HSNG HT A1-41-LP	12.42	10.50	72	OT
215113	RCS HSNG HT A2-41-LP	10.72	10.50	72	OT
215301	GSE SR PN HT A-44-RP	4.94	11.50	73	OT
215302	ENG SR PN HT A-38-RP	4.84	7.50	73	OT
215303	OME COVER HT A-54-RP	19.91	18.50	73	OT
215304	Y-WB OTBD HT A-28-RP	15.06	14.00	73	OT
215305	Y-WB INBD HT A-34-RP	11.30	10.50	73	OT
215307	CT LN WB HT A1-22-RP	36.40	18.00	73	OT
215308	CT LN WB HT A2-22-RP	38.32	18.00	73	OT
215309	CT LN WB HT A3-22-RP	39.15	18.00	73	OT
215311	CT LN WB HT A4-22-RP	39.28	18.00	73	OT
215312	RCS HSNG HT A1-42-RP	12.42	10.50	73	OT
215313	RCS HSNG HT A2-42-RP	10.72	10.50	73	OT
217001	XFD OX/FU FLXL HTA-L	12.07	34.00	72	OT
217003	XFD OX/FU FLXL HTA-R	12.07	34.00	72	OT
217101	XFD OX/FU LNE HTA-L	8.05	13.00	72	OT
217103	XFD OX/FU LNE HTA-R	8.05	13.00	72	OT
217105	XFD OX/FU LNE HTA-C	11.74	13.00	72	OT
217201	FU HIPT BLDLN HTA-A	3.77	25.00	72	OT
217203	FU HIPT BLDLN HTA-M	8.26	34.00	72	OT
217301	OX HIPT BLDLN HTA-A	3.93	26.00	72	OT
217303	OX HIPT BLDLN HTA-M	8.50	35.00	72	OT
217401	LOPT OXFU DRLN HTA-L	5.51	5.50	72	OT
217403	LOPT OXFU DRLN HTA-R	5.51	6.50	72	OT
220201	AFT THRUSTER R1R1-Y	.46	.67	78	OT
220204	AFT THRUSTER R2R1-Y	.45	.67	80	OT
220207	AFT THRUSTER R3R1-Y	.45	.67	79	OT
220214	AFT THRUSTER L1L1+Y	.45	.67	78	OT
220217	AFT THRUSTER L2L1+Y	.45	.67	80	OT
220221	AFT THRUSTER L3L1+Y	.45	.67	79	OT
225101	FWD RCS HT-ENG F1F-X	1.83	8.50	7	OT
225102	FWD RCS HT-ENG F1L+Y	1.75	3.50	7	OT
225103	FWD RCS HT-ENG F1U+Z	1.63	2.00	7	OT
225104	FWD RCS HT-ENG F1D-Z	1.07	5.00	7	OT
225105	FWD RCS HT-ENG F2F-X	2.47	11.50	8	OT
225106	FWD RCS HT-ENG F2R-Y	1.86	4.00	8	OT
225107	FWD RCS HT-ENG F2U+Z	1.89	2.00	8	OT
225108	FWD RCS HT-ENG F2D-Z	1.18	5.50	8	OT
225109	FWD RCS HT-ENG F3F-X	2.15	10.00	8	OT
225111	FWD RCS HT-ENG F3L+Y	1.54	2.50	8	OT
225112	FWD RCS HT-ENG F3U+Z	1.83	8.50	8	OT
225113	FWD RCS HT-ENG F3D-Z	.97	4.50	8	OT
225114	FWD RCS HT-ENG F4R-Y	.75	3.50	9	OT
225115	FWD RCS HT-ENG F4D-Z	.86	4.00	9	OT
225201	AFT RCS HT-ENG R1R-Y	.43	2.00	85	OT
225202	AFT RCS HT-ENG R2R-Y	.43	2.00	84	OT
225203	AFT RCS HT-ENG R3R-Y	.43	2.00	86	OT
225204	AFT RCS HT-ENG R4R-Y	.43	2.00	86	OT

Figure 6.4-17. - Continued

225205	AFT RCS HT-ENG R20-Z	.43	2.00	86	01
225206	AFT RCS HT-ENG R30-Z	.43	2.00	86	01
225207	AFT RCS HT-ENG R40-Z	.43	2.00	86	01
225208	AFT RCS HT-ENG R10+Z	.64	3.00	85	01
225209	AFT RCS HT-ENG R20+Z	.64	3.00	84	01
225211	AFT RCS HT-ENG R30+Z	.64	3.00	86	01
225212	AFT RCS HT-ENG R1A+X	.65	2.00	85	01
225213	AFT RCS HT-ENG R3A+X	1.29	4.00	86	01
225301	AFT RCS HT-ENG L1L	.43	2.00	85	01
225302	AFT RCS HT-ENG L2L	.43	2.00	84	01
225303	AFT RCS HT-ENG L3L+Y	.43	2.00	86	01
225304	AFT RCS HT-ENG L4L+Y	.43	2.00	86	01
225305	AFT RCS HT-ENG L20-Z	.43	2.00	84	01
225306	AFT RCS HT-ENG L30-Z	.43	2.00	86	01
225307	AFT RCS HT-ENG L40-Z	.43	2.00	86	01
225308	AFT RCS HT-ENG L10+Z	.64	3.00	85	01
225309	AFT RCS HT-ENG L20+Z	.64	3.00	84	01
225311	AFT RCS HT-ENG L30+Z	.64	3.00	86	01
225312	AFT RCS HT-ENG L1A+X	.65	2.00	85	01
225313	AFT RCS HT-ENG L3A+X	1.29	4.00	86	01
225401	FWD VRN HT-ENG F5R	.59	5.50	9	01
225402	FWD VRN HT-ENG F6L	.64	6.00	9	01
225501	AFT VRN HT-ENG R50-Z	.43	4.00	86	01
225502	AFT VRN HT-ENG R5R-Y	2.21	20.50	86	01
225503	AFT VRN HT-ENG L50-Z	.43	4.00	86	01
225504	AFT VRN HT-ENG L5L+Y	2.21	20.50	86	01
300201	FCP #1 O2 FLOWMETER	5.88		47	01
300202	FCP #2 O2 FLOWMETER	6.13		48	01
300203	FCP #3 O2 FLOWMETER	6.16		49	01
300301	FCP #1 H2 FLOWMETER	5.88		47	01
300302	FCP #2 H2 FLOWMETER	6.13		48	01
300303	FCP #3 H2 FLOWMETER	6.16		49	01
300401	FCP1 EL CTL-ORBT	4.78		38	01
300402	FCP2 EL CTL-ORBT	4.76		39	01
300403	FCP3 EL CTL-ORBT	4.66		40	01
300501	FCP1 PMP+H2O SENSOR	236.08		201	01
300502	FCP2 PMP+H2O SENSOR	236.34		202	01
300503	FCP3 PMP+H2O SENSOR	240.02		203	01
305301	H2O VENT LN HTR A	.61	7.00	47	01
305401	FCP1 H2O RLF VL HT A	.24	7.00	47	01
305403	FCP2 H2O RLF VL HT A	.24	7.00	47	01
305405	FCP3 H2O RLF VL HT A	.24	7.00	47	01
305601	H2O NO7 BARREL HTR A	1.42	25.00	47	01
310301	O2 INK1 SIG COND QTY	2.21		42	01
310302	H2 INK1 SIG COND QTY	2.21		42	01
310303	O2 INK2 SIG COND QTY	2.22		41	01
310304	H2 INK2 SIG COND QTY	2.41		41	01
320201	APU 1 FU ISO VLV 1	31.56		63	01
320202	APU 1 FU ISO VLV 2	31.57		64	01
320203	APU 2 FU ISO VLV 1	31.57		64	01
320204	APU 2 FU ISO VLV 2	31.55		65	01
320205	APU 3 FU ISO VLV 1	31.55		65	01
320206	APU 3 FU ISO VLV 2	31.56		63	01
320301	APU1 CNTLR-OPERATE	19.70		66	01
320302	APU2 CNTLR-OPERATE	19.70		67	01
320303	APU3 CNTLR-OPERATE	19.70		63	01
320401	APU 1 SHUTOFF VLV	35.00		63	01

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Figure 6.4-17. - Continued

320402	APU 2 SHUTOFF VLV	34.99		67	OT			
320403	APU 1 SHUTOFF VLV	34.99		68	OT			
320501	APU 1 MODULATING VLV	17.50	50.00	66	OT			
320502	APU 2 MODULATING VLV	17.50	50.00	67	OT			
320503	APU 3 MODULATING VLV	17.49	50.00	68	OT			
325201	FUEL FEEDLINE HTR 1A	67.70		24	OT			
325203	FUEL FEEDLINE HTR 2A	81.00		85	OT			
325205	FUEL FEEDLINE HTR 3A	47.70		86	OT			
325301	FUEL SERVLINE HTR 1A	16.06	28.00	84	OT			
325303	FUEL SERVLINE HTR 2A	13.36	22.00	85	OT			
325305	FUEL SERVLINE HTR 3A	18.06	22.00	86	OT			
325401	FUEL DRN LINE HTR 1A	11.10	27.00	84	OT			
325403	FUEL DRN LINE HTR 2A	14.39	27.00	85	OT			
325405	FUEL DRN LINE HTR 3A	9.12	28.00	86	OT			
325801	APU 1 PRI H2O HTR 1A	9.90	35.00	75	OT			
325803	APU 2 PRI H2O HTR 1A	2.87	35.00	76	OT			
325805	APU 3 PRI H2O HTR 1A	9.38	35.00	77	OT			
325901	APU 1 SEC H2O HTR 2A	10.53	35.00	75	OT			
325903	APU 2 SEC H2O HTR 2A	4.79	35.00	76	OT			
325905	APU 3 SEC H2O HTR 2A	4.79	35.00	77	OT			
326301	GG H2O TK L1 HT 504A	4.37	35.00	75	OT			
326303	GG H2O TK L1 HT 503A	7.94	35.00	77	OT			
400101	CABIN FAN A	646.16		203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	20.00	214	AC		16.90A	
400301	CAB AIR TMP CN EL-PR	5.23		214	AC		4.00A	
400400	CAB AIR SIGNAL COND	8.84		212	AC	3.70B		
400502	ARS HUMIDITY SEP B	37.25		202	AC		28.50	1.80A
400600	ARS HUM SEP SIG CND	2.35		217	AC			
400701	PP02 CNTRL-SYS 1	.70		16	AC			
400702	PP02 CNTRL-SYS 2	.70		17	AC			
400711	O2 CONTROL VLV-SYS 1	4.71	50.00	16	AC			
400712	O2 CONTROL VLV-SYS 2	4.73	50.00	17	AC			
400731	CABIN PRESS SENSOR	.70		16	AC			
400732	CAB PRES DECAV SENSOR	2.01		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.00		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.01		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.00		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.01		17	AC			
400761	PP02 SENSOR-SYS 1	.80		16	AC			
400762	PP02 SENSOR-SYS 2	.80		17	AC			
400763	PP02 SENSOR-SYS 3	.80		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1		168.00	
400803	AVION FAN-BAY 2 (A)	213.07		202	A2		163.00	
400806	AVION FAN-BAY 3 (B)	219.73		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC			
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.80B		2.40B
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.50B	
401001	SMOKE DT SNR-L FLT D	6.52		16	OT			
401002	SMOKE DT SNR-R FLT D	6.52		16	OT			
401003	S D SNR A - BAY 1	6.59		18	OT			
401004	S D SNR B - BAY 1	6.54		17	OT			
401005	S D SNR A - BAY 2	6.52		16	OT			
401006	S D SNR B - BAY 2	6.59		18	OT			
401007	S D SNR A - BAY 3	6.54		17	OT			
401008	S D SNR B - BAY 3	6.52		16	OT			
401009	S D SNR - CABIN	6.59		18	OT			
401102	IMU FAN B	63.53		202	WC		48.60	

Figure 6.4-17. - Continued

401200	IMU FAN SIG COND	2.35		218	AC			
401301	H20 PUMP - 1000-2	250.88		203	UC			191.80
401501	H20 BYPASS CN SC-PRI	7.71		217	AC			5.90A
401502	H20 BYPASS CN SC-SEC	7.72		211	AC			5.90A
402901	FFCON PMP LP 1-A ASC	489.17		201	FP	5.90A		
402902	FFCON PMP LP 2-A ASC	489.20		203	FP	374.00		
403601	FFCON COOL LP1 INSTR	6.54		215	OT		5.00B	374.00
403602	FFCON COOL LP2 INSTR	6.54		218	OT			5.00B
403701	FES CONTROLLER PRI A	7.44		86	OT			
403801	FES HI LB PLSR V-PRI	28.37		89	OT			
403811	FES HI LD ISO VL-PRI	28.37		89	OT			
403901	FES TOP'G PLSR V-PRI	28.37		89	OT			
403921	TPNG V HLONG COIL-PR	3.63		89	OT			
405601	NH3 SYSTEM CNTRLR A	5.96		82	OT			
405602	NH3 SYSTEM CNTRLR B	5.77		88	OT			
406000	VACUUM VNT NOZ HTR	11.40		5	OT			
406201	SEC FLTR LN HTA-TS11	1.48	7.00	86	OT			
406202	SEC FLTR LN HTA-TS12	1.39	16.00	86	OT			
406205	SEC FLTR LN HTA-TS13	11.24	22.00	49	OT			
406207	SEC FLTR LN HTA-TS3	6.29	13.00	86	OT			
408501	HI LD DUCT HTR1 SEC1	553.60		47	OT			
408601	HI LD DUCT HTR1 SEC2	254.60		47	OT			
408701	HI LD DUCT NOZ HT GP1	130.70		47	OT			
409001	TOP'G DUCT HTR1 SEC1	378.90		47	OT			
409101	TOP'G DUCT HTR1 SEC2	468.60		47	OT			
409201	TOP'G DUCT HTR1 SEC3	62.80		84	OT			
409301	TOP'G DUCT HTR1 SEC4	64.80		84	OT			
409401	SONIC LFT NOZ HTR 1A	25.00		84	OT			
409501	SONIC RHT NOZ HTR 2A	24.70		85	OT			
500601	RESVOIR -1 VOL SN5R	1.83		212	OT	1.40B		
500602	RESVOIR -2 VOL SN5R	1.83		215	OT		1.40B	
500603	RESVOIR -3 VOL SN5R	1.83		218	OT			1.40B
501801	RUD/SPBK SW VL ACT 1	1.32		213	OT	1.00C		
501802	RUD/SPBK SW VL ACT 2	1.32		216	OT		1.00C	
501901	ME 1 PITCH SW V ACTV	1.32		216	OT		1.00C	
501902	ME 1 YAW SW ACTV	1.32		216	OT		1.00C	
501903	ME 2 PITCH SW V ACTV	1.32		216	OT		1.00C	
501904	ME 2 YAW SW V ACTV	1.32		216	OT		1.00C	
501905	ME 3 PITCH SW V ACTV	1.32		216	OT		1.00C	
501906	ME 3 YAW SW V ACTV	1.32		216	OT		1.00C	
502001	ELV ACT SW V ACT-LO	1.32		213	OT	1.00C		
502002	ELV ACT SW V PS2-LO	1.32		216	OT		1.00C	
502003	ELV ACT SW V ACT-LI	1.32		213	OT	1.00C		
502004	ELV ACT SW V PS2-LI	1.32		216	OT		1.00C	
502005	ELV ACT SW V ACT-RI	1.32		213	OT	1.00C		
502006	ELV ACT SW V PS2-RI	1.32		216	OT		1.00C	
502007	ELV ACT SW V ACT-RO	1.32		213	OT	1.00C		
502008	ELV ACT SW V PS2-RO	1.32		216	OT		1.00C	
503301	H20 BR1 HYD H20 CT A	14.52	50.00	63	OT			
503302	H20 BR2 HYD H20 CT A	12.17	50.00	63	OT			
503305	H20 BR3 HYD H20 CT A	11.55	50.00	64	OT			
503401	H20 BR1 APU H20 CT A	14.52	50.00	65	OT			
503403	H20 BR2 APU H20 CT A	12.17	50.00	65	OT			
503405	H20 BR3 APU H20 CT A	11.55	50.00	64	OT			
503701	H20 BLR1 CNT LOGIC A	4.71		217	OT			3.60A
503703	H20 BLR2 CNT LOGIC A	3.92		213	OT	3.00C		
503705	H20 BLR3 CNT LOGIC A	3.79		214	OT		2.90A	

Figure 6.4-17. - Continued

503801	H2O BOILER 1 CNL A	.77	65	OT			
503802	H2O BOILER 2 CNL A	.67	64	OT			
503805	H2O BOILER 3 CNL A	.77	64	OT			
505401	WSP VENT NOZZ HTR 1A	73.60	65	OT			
505403	WSP VENT NOZZ HTR 2A	61.50	63	OT			
505405	WSP VENT NOZZ HTR 3A	59.10	64	OT			
520601	BODYFLAP ACT ISO V 1	14.07	68	OT			
520602	BODYFLAP ACT ISO V 2	14.07	66	OT			
520603	BODYFLAP ACT ISO V 3	14.07	67	OT			
522701	BRK/SKID CNL BOX A	17.69	38	A1			
522702	BRK/SKID CNL BOX B	17.70	29	A2			
600301	ESCAPE SUIT VT ASY L	94.96	11	AC			
600302	ESCAPE SUIT VT ASY R	93.40	10	AC			
			TOTAL INVERTER WATTS	=	2044.82	1364.94	1955.09
			TOTAL 3 PHASE WATTS	=	958.60	591.00	1245.40
			TOTAL A PHASE WATTS	=	250.60	163.80	20.80
			TOTAL B PHASE WATTS	=	201.40	175.60	68.40
			TOTAL C PHASE WATTS	=	148.00	171.00	160.00

Figure 6.4-17. - Concluded

TOTAL WATTS = 22583.94
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 053:59:14.3

Figure 6.4-18.--Vehicle configuration at 2 days 6 hours 31 minutes 44 seconds (stoproll)

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LISTING OF ALL ACTIVE COMPONENTS AT TIME 054:11:44.0

--NOTE--

DUE TO PROGRAM CONSTRAINTS, COMPONENTS HAVING MULTIPLE
MODES CARRY THE TITLE OF THE FIRST LISTED MODE.
EQUIPMENT WHICH IS USED IN MORE THAN ONE MODE IS
IDENTIFIED BY AN ASTERISK (*) FOLLOWING THE POWER LEVEL.

--NOTE--

ORBITER INVERTERS AND MAIN DISTRIBUTION ASSEMBLIES ARE
INCLUDED IN THE SEPS PROGRAM EPS MODEL AND WILL NOT
APPEAR IN THE TIMSEQ LISTING.

LISTING OF ALL ACTIVE COMPONENTS BY SUBSYSTEM WITH PHASE II POWER LEVELS

Figure 6.4-18. - Continued

COMPONENT NUMBER	COMPONENT NAME	LOAD POWER (WATTS)	MODE FLAG	USAGE FACTOR (PERCENT)	SEPS LOAD NO	COOL CODE	INVERTER NO 1 (WATTS)	INVERTER NO 2 (WATTS)	INVERTER NO 3 (WATTS)
010101	IMU =1 OPERATE	118.77			28	WC			
010102	IMU =2 OPERATE	118.78	*		29	WC			
010103	IMU =3 OPERATE	118.80	*		30	WC			
010302	STAR TRACKER -Y AXIS	16.61			17	OT			
010401	ADTA =1	64.00			16	A1			
010402	ADTA =2	64.00			17	A2			
010403	ADTA =3	64.00			18	A1			
010404	ADTA =4	64.00			18	A2			
010801	ATVC =1 PWR SUP-OPER	38.90	*		66	F4			
010802	ATVC =2 PWR SUP-OPER	38.90	*		67	F5			
010803	ATVC =3 PWR SUP-OPER	38.90	*		68	F6			
010804	ATVC =4 PWR SUP-OPER	38.90	*		80	F6			
010811	ATVC =1 ISO VLV DRVR	.78			65	F4			
010812	ATVC =2 ISO VLV DRVR	.78			64	F5			
010813	ATVC =3 ISO VLV DRVR	.78			64	F6			
010814	ATVC =4 ISO VLV DRVR	.78			76	F6			
010821	ATVC =1 ACTS-OPER	3.30	*		66	OT			
010822	ATVC =2 ACTS-OPER	3.30	*		67	OT			
010823	ATVC =3 ACTS-OPER	3.30	*		68	OT			
010824	ATVC =4 ACTS-OPER	3.30	*		80	OT			
010901	ASA1 PWR SUP LOG-OPR	52.50	*		66	F4			
010902	ASA2 PWR SUP LOG-OPR	52.50	*		67	F5			
010903	ASA3 PWR SUP LOG-OPR	52.50	*		68	F6			
010904	ASA4 PWR SUP LOG-OPR	52.50	*		80	F6			
011001	ASA =1 IVD/BF-OPER	2.50	*		68	F4			
011002	ASA =2 IVD/BF-OPER	2.50	*		66	F5			
011003	ASA =3 IVD/BF-OPER	2.50	*		67	F6			
011004	ASA =4 IVD-OPER	1.40	*		76	F6			
011011	ASA 1 ACTUATORS-OPER	34.33	*		66	OT			
011012	ASA 2 ACTUATORS-OPER	34.33	*		67	OT			
011013	ASA 3 ACTUATORS-OPER	34.33	*		68	OT			
011014	ASA 4 ACTUATORS-OPER	16.53	*		80	OT			
011101	RJDF =1A PRI RCS	10.60			23	W1			
011102	RJDF =1B PRI RCS	10.60			22	W1			
011103	RJDF =2A PRI RCS	10.60			24	W2			
011104	RJDF =2B PRI/VN RCS	10.60			24	W2			
011201	RJDA =1A PRI RCS	13.20			80	F4			
011202	RJDA =1B PRI/VN RCS	15.60			78	F4			
011203	RJDA =2A PRI RCS	13.20			80	F6			
011204	RJDA =2B PRI/VN RCS	15.60			79	F6			
011301	PGA =1 OPR	24.62	*		78	FA			
011302	PGA =2 OPR	24.91	*		68	FA			
011303	PGA =3 OPR	24.94	*		49	FA			
011304	PGA =4 OPR	24.66	*		46	FA			
011401	ACCEL ASSY =1 - OPER	2.40			16	A1			
011402	ACCEL ASSY =2 - OPER	2.40			17	A2			
011403	ACCEL ASSY =3 - OPER	2.40			30	A2			
011404	ACCEL ASSY =4 - OPER	2.40			29	A1			
011601	RHC-LH	3.09			19	AC			
011701	RHC-LH	4.62			19	AC			
011702	RHC-RH	4.71			20	AC			
011801	RPTA-LH	1.20			19	AC			
011802	RPTA-RH	1.20			20	AC			

Figure 6.4-18. - Continued

011901	SBTC-LH	1.60		19	AC			
011902	SBTC-RH	1.60		20	AC			
020802	NTWK SIG PROCESSOR 2	27.81		34	W3			
021302	S-BND XPNDR=2-DIRECT	57.88	*	34	W3			
021401	S-BND PWR AMP 1-SBY	20.40		23	W3			
021402	S-BND PWR AMP 2-OPR	183.23	*	24	W3			
021501	S-BD PREAMP 1-SBY	12.64		33	W3			
021502	S-PD PREAMP 2-OPR	18.54		34	W3			
021600	S-BND ANT SW ASSY-QES	.55	*	33	A3			
021701	TACAN =1 SEARCH	196.08		213	A1	160.00C		
021702	TACAN =2 SEARCH	196.08	*	216	A2		160.00C	
021703	TACAN =3 SEARCH	196.29	*	219	A3			160.00C
021901	MSBLS DCDR ASSY=1	55.08		16	A1			
021902	MSBLS DCDR ASSY=2	57.35		17	A2			
021903	MSBLS DCDR ASSY=3	53.21		18	A2			
022001	MSBLS RF ASSY =1	15.54		16	A1			
022002	MSBLS RF ASSY =2	16.15		17	A2			
022003	MSBLS RF ASSY =3	15.03		18	A2			
022101	RADAR ALTIMETER =1	23.20		16	W1			
022102	RADAR ALTIMETER =2	23.22		17	W2			
022201	UHF XCVR-XMT/REC	56.86	*	10	AC			
024101	AUDIO CENTER 1	38.52		42	W1			
024201	AUDIO TERM UN-PLT RT	3.37		42	AC			
024202	AUDIO TERM UN-CDR LT	3.38		41	AC			
024203	AUDIO TERM UNIT-HSS	3.44		10	AC			
024204	AUDIO TERM UNIT-PS	3.69		15	AC			
024601	AUDIO INTF UNIT-PLT	.67		42	AC			
024802	AUDIO INTF UNIT-CHDR	.68		41	AC			
024910	MULTIPLE HDSET ADPTR	.68		41	AC			
030101	ADT =1 FWD LH	17.07		19	AC			
030102	ADT =2 FWD RH	17.12		20	AC			
030201	HST =1	26.93		16	AC			
030202	HST =2	26.96		17	AC			
030301	AMT =1	7.06		16	AC			
030302	AMT =2	7.07		17	AC			
030401	ALPHA MACH EL UNIT 1	31.68		16	HX			
030402	ALPHA MACH EL UNIT 2	31.70		17	HX			
030501	AVVI =1	7.06		16	AC			
030502	AVVI =2	7.07		17	AC			
030601	ALT VER VEL EL UN =1	24.82		16	HX			
030602	ALT VER VEL EL UN =2	24.84		17	HX			
030705	TAPE MTR M1 (HYD PR)	9.09		17	AC			
030706	TAPE MTR M2 (HYD QTY)	9.09		17	AC			
030707	TAPE MTR M3 (APU)	9.09		17	AC			
030708	TAPE MTR M4 (APU OIL)	6.06		17	AC			
031304	SPI	12.40		16	AC			
031400	OMS/RCS PROP QTY IND	4.82		18	AC			
031501	C+W PWR SUP A-STBY	20.67		41	A3			
031502	C+W PWR SUP B-STBY	13.10		42	A3			
031701	MISSION TIMER =1 FWD	3.63		16	AC			
031702	MISSION TIMER =2 AFT	3.63		17	AC			
031801	EVENT TIMER =1 FWD	3.03		17	AC			
031802	EVENT TIMER =2 AFT	3.03		16	AC			
032201	DDU =1 FWD LH	120.00		19	HX			
032202	DDU =2 FWD RH	120.00		20	HX			
032701	CRT DU =1 - LF	84.65		22	HX			
032702	CRT DU =2 - RF	84.62		23	HX			

Figure 6.4-18. - Continued

032703	CRT DU =3 - CF	84.54		24	HX			
032601	DEU =1	202.00		22	HX			
032602	DEU =2	202.00		23	HX			
032603	DEU =3	202.00		24	HX			
033101	PANEL LTS - LEFT/CTR	255.31		211	AC	195.00A		
033102	PANEL LTS - LEFT/OVHD	231.17		212	AC	177.00B		
033103	PANEL LIGHTS - RIGHT	116.48	67.00	215	AC		133.00B	
033107	PANEL LTS - RHT/OVHD	172.55		214	AC		132.00A	
033201	INSTR LTS - LEFT/CTR	75.56		218	AC			57.80B
033202	INSTR LTS - OVERHEAD	35.95		215	AC		27.50B	
033203	INSTR LTS - RIGHT	65.07		211	AC	49.70A		
033301	NUMERIC LIGHTS-FWD	22.88		212	AC	17.50B		
034202	GLARSHLD FLDLT-LEFT	7.97	*	41	AC			
034203	GLARSHLD FLDLT-RGHT	7.96	*	42	AC			
034205	RHT OVERHEAD FLDLT A	22.85		18	AC			
035600	C+W ANNUN ASSY-OPR	7.73	*	41	AC			
037200	CICU - OPER	6.73	*	43	A1			
037301	ACA =1	33.30		16	AC			
037302	ACA =2/3	67.27		17	AC			
037303	ACA =4/5	55.34		18	AC			
037401	ANNUN 1	12.53		16	AC			
037402	ANNUN 2/3	23.32		17	AC			
037403	ANNUN 4/5	19.62		18	AC			
040301	PCM MASTER UNIT =1	55.00		30	W1			
040401	OPS-1 RECORDER-REPLY	15.56	*	28	W2			
040402	OPS-2 RECORDER-REPLY	61.28	*	29	W2			
040403	PAYLD RECORDER-REPLY	51.33	*	30	W1			
040501	DED SIG CND OF1- FWD	22.80		19	W2			
040502	DED SIG CND OF2- FWD	32.60		20	W2			
040503	DED SIG CND OF3- FWD	26.80		20	W3			
040601	DED SIG CND OA1- AFT	36.20		66	F4			
040602	DED SIG CND OA2- AFT	29.10		67	F5			
040603	DED SIG CND OA3- AFT	29.10		68	F6			
040900	MTU - OPER	29.71		43	W4			
041201	DSC OL1 OMS/RCS	23.30		78	OT			
041202	DSC OL2 OMS/RCS	21.40		80	OT			
041203	DSC OR1 OMS/RCS	23.30		78	OT			
041204	DSC OR2 OMS/RCS	21.40		79	OT			
041301	DSC OM1 MID FUS	13.90		19	OT			
041302	DSC OM2 MID FUS	22.10		19	OT			
041400	DSC OF4 FWD RCS	26.90		19	OT			
041601	WDRND S/C =1 (BAY4)	.39		63	OT			
041602	WDRND S/C =2 (BAY4)	.39		63	OT			
041603	WDRND S/C =3 (BAY4)	.39		63	OT			
041604	WDRND S/C =4 (BAY4)	.39		63	OT			
041701	WDRND S/C =1 (BAY5)	.39		64	OT			
041702	WDRND S/C =2 (BAY5)	.39		64	OT			
050100	PWR DIST ASSY FWD	10.21		12	DW			
050201	PWR DIST ASSY =1 MID	9.47		44	D1			
050202	PWR DIST ASSY =2 MID	9.47		44	D2			
050203	PWR DIST ASSY =3 MID	9.47		44	D3			
050301	PCM MASTER UNIT =1	55.00		24	DW			
050401	DSC FLD =1-SDF1	22.20		12	DW			
050402	DSC FLD =2-SDF2	22.20		12	DW			
050403	DSC FLD =3-SDF3	22.50		12	DW			
050501	DSC UNIT #1 - SDL1	16.60		44	D1			
050502	DSC UNIT #2 - SDL2	24.70		44	D1			

Figure 6.4-18. - Continued

050503	DSC UNIT #3 - SCL3	16.60	44	01
050504	DSC UNIT #4 - SCL4	24.70	44	01
050505	DSC UNIT #5 - SCL5	46.70	44	01
050506	DSC UNIT #1 - SDR1	16.60	44	02
050507	DSC UNIT #2 - SDR2	24.70	44	02
050508	DSC UNIT #3 - SDR3	16.60	44	02
050509	DSC UNIT #4 - SDR4	46.80	44	02
050601	DSC UNIT #1 - SDC1	16.60	44	03
050602	DSC UNIT #2 - SDC2	23.90	44	03
050603	DSC UNIT #3 - SDC3	16.60	44	03
050604	DSC UNIT #4 - SDC4	17.70	44	03
050605	DSC UNIT #5 - SDC5	16.60	44	03
050701	WB FDM 1A (FMF1)-FWD	12.76	50.00	04
050702	WB FDM 1B (FMF1)-FWD	12.76	50.00	04
050703	WB FDM 2A (FMF2)-FWD	25.53	12	04
050704	WB FDM 2B (FMF2)-FWD	25.53	12	04
050705	WB FDM 3A (FMF3)-FWD	25.53	12	04
050706	WB FDM 3B (FMF3)-FWD	25.53	12	04
050801	WDBND FDM UN1-MID L1	24.15	47	01
050802	WDBND FDM UN1-MID L1	24.34	46	01
050803	WDBND FDM UN2-MID L1	24.15	47	01
050804	WDBND FDM UN2-MID L1	24.34	46	01
050805	WDBND FDM UN1-MID R2	24.15	47	02
050806	WDBND FDM UN1-MID R2	24.34	46	02
050807	WDBND FDM UN2-MID R2	24.15	47	02
050808	WDBND FDM UN2-MID R2	24.34	46	02
050812	WDBND FDM UN1-MID L3	24.15	47	03
050820	FREQN FLOMTR-MID LT3	1.93	47	03
050831	LOAD SEN ACCEL-1 FWD	3.57	12	04
050832	LOAD SEN ACCEL-2 FWD	3.57	12	04
050833	LOAD SEN ACCEL-MR 2	13.53	47	02
050834	LOAD SEN ACCEL-MR 3	10.22	48	02
050930	PCM RCDR-RECD-SERIAL	57.18	12	04
051011	WBSC FWD (A131)-100%	2.86	12	04
051020	WBSC FWD (A132)-WBM	5.72	12	04
051032	WBSC FWD (A133)-WBM	7.86	12	04
051041	WBSC FWD (A134)-WBM	9.70	12	04
051111	WBSC LM1 (A135)-WBM	2.73	48	01
051112	WBSC LM1 (A135)-WBM	3.38	47	01
051121	WBSC LM1 (A136)-WBM	3.41	48	01
051122	WBSC LM1 (A136)-WBM	3.77	47	01
051131	WBSC LM1 (A137)-WBM	5.16	48	01
051132	WBSC LM1 (A137)-WBM	4.44	47	01
051141	WBSC LM1 (A138)-WBM	3.80	48	01
051142	WBSC LM1 (A138)-WBM	5.12	47	01
051211	WBSC RM2 (A139)-WBM	2.73	48	02
051212	WBSC RM2 (A139)-WBM	3.09	47	02
051221	WBSC RM2 (A140)-WBM	3.12	48	02
051222	WBSC RM2 (A141)-WBM	2.71	47	02
051231	WBSC RM2 (A141)-WBM	4.77	48	02
051232	WBSC RM2 (A141)-WBM	4.44	47	02
051241	WBSC RM2 (A142)-WBM	3.12	48	02
051242	WBSC RM2 (A142)-WBM	5.41	47	02
051322	WBSC LM3 (A144)-WBM	6.76	47	03
051332	WBSC LM3 (A145)-100%	2.71	47	03
051333	WBSC LM3 (A145)-100%	3.12	48	03
051401	DC-DC XDCERS-FWD	15.65	47	01

Figure 6.4-18. - Continued

051402	DC-DC XDUCCRS-FWD	5.51	12	OT		
051403	DC-DC XDUCCRS-FWD	5.51	47	OT		
051404	DC-DC XDUCCRS-MID L1	29.56	47	OT		
051405	DC-DC XDUCCRS-MID L1	7.92	47	OT		
051406	DC-DC XDUCCRS-MID L1	5.26	48	OT		
051407	DC-DC XDUCCRS-MID R2	27.82	47	OT		
051408	DC-DC XDUCCRS-MID R2	1.93	47	OT		
051409	DC-DC XDUCCRS-MID R2	3.51	48	OT		
051411	DC-DC XDUCCRS-MID L3	5.77	47	OT		
051412	DC-DC XDUCCRS-MID L3	38.26	47	OT		
051501	SGSC FWD (A161)-100%	23.59	12	DW		
051502	SGSC FWD (A161)-100%	16.74	12	DW		
051503	SGSC FWD (A161)-WBM	5.62	12	DW		
051504	SGSC FWD (A161)-WBM	15.72	12	DW		
051611	SGSC ML1 (A162)-100%	89.66	47	D1		
051612	SGSC ML1 (A162)-WBM	14.88	47	D1		
051613	SGSC ML1 (A162)-WBM	14.99	48	D1		
051621	SGSC ML1 (A163)-100%	63.28	47	D1		
051622	SGSC ML1 (A163)-WBM	29.99	48	D1		
051623	SGSC ML1 (A163)-WBM	7.44	47	D1		
051624	SGSC ML1 (A163)-100%	7.50	48	D1		
051625	SGSC ML1 (A163)-100%	29.76	47	D1		
051631	SGSC MR2 (A164)-100%	111.58	48	D2		
051632	SGSC MR2 (A164)-100%	22.49	48	D2		
051641	SGSC MR2 (A165)-100%	100.97	48	D2		
051642	SGSC MR2 (A165)-100%	37.49	48	D2		
051651	SGSC MR2 (A169)-100%	69.13	48	D2		
051652	SGSC MR2 (A169)-WBM	29.99	48	D2		
051653	SGSC MR2 (A169)-WBM	22.32	47	D2		
051654	SGSC MR2 (A169)-100%	29.99	48	D2		
051661	SGSC ML3 (A166)-100%	74.39	48	D3		
051662	SGSC ML3 (A166)-WBM	29.76	47	D3		
051671	SGSC ML3 (A167)-100%	58.42	48	D3		
051672	SGSC ML3 (A167)-WBM	44.63	47	D3		
051673	SGSC ML3 (A167)-100%	22.49	48	D3		
051700	MDM DF1 - FWD	53.90	12	DW		
051601	MDM DL1 - MID LEFT 1	50.00	44	D1		
051602	MDM DL2 - MID LEFT 1	50.20	44	D1		
051603	MDM DR1 - MID RIGHT 2	50.00	44	D2		
051604	MDM DR2 - MID RIGHT 2	52.80	44	D2		
051605	MDM DC1 - MID LEFT 3	49.18	44	D3		
051606	MDM DC2 - MID LEFT 3	62.60	44	D3		
051900	S-RAND FM XMITR-DFI	122.52	12	DW		
052200	ARS DFI SIGNAL COND	8.10	215	OT		
052300	ATCS DFI SIGNAL COND	1.96	217	OT		
052401	DFI-FREQN PUMP #1	306.06	201	D1	234.00	6.20B 1.50A
052500	3-AXIS ACCEL	1.74	12	OT		
053700	ACIP PACKAGE	103.65	49	OT		
053800	ACIP PCM MASTER	19.56	49	OT		
053900	ACIP PCM SLAVE	11.73	49	OT		
054000	ACIP MINI DHE	19.56	49	OT		
054010	INTF CNTL MOD-ACIP	3.72	49	AC		
060901	GRND CMDS INTFC UN A	27.28	33	W3		
061601	INV DIST+CTL ASY1-DC	2.58	41	A1		
061602	INV DIST+CTL ASY1-AC	2.75	201	A1	2.10	
061603	INV DIST+CTL ASY2-DC	2.58	42	A2		
061604	INV DIST+CTL ASY2-AC	2.75	202	A2	2.10	

Figure 6.4-18. - Continued

061005	INV DIST+CTL ASY3-DC	.58		43	A3	
061006	INV DIST+CTL ASY3-AC	2.76		203	A3	2.10
061701	CURR SENSOR-MIDBDY=1	3.34		7	OT	
061702	CURR SENSOR-MIDBDY=2	3.37		8	OT	
061703	CURR SENSOR-MIDBDY=3	3.37		9	OT	
061704	CURR SENSOR-PL MN-B	1.07		64	OT	
061705	CURR SENSOR-PL MN-C	1.07		65	OT	
061706	CURR SENSOR-LH ADP	1.03		22	OT	
061707	CURR SENSOR-LH ADP	1.03		23	OT	
061708	CURR SENSOR-RH ADP	1.03		23	OT	
061709	CURR SENSOR-RH ADP	1.03		23	OT	
061801	H202 CRYO ASY1A-QUES	11.59		7	FM	
061802	H202 CRYO ASY1D-QUES	11.69		9	FM	
061811	H202 CRYO ASY2A-QUES	11.68		8	FM	
061812	H202 CRYO ASY2B-QUES	11.69		9	FM	
062001	PROX SNSR EL PKG =1	10.46		217	A1	
062002	PROX SNSR EL PKG =2	10.46		214	A2	8.00A 8.00A
062101	MTR CNTL ASSY FWD =1	3.81	16.00	22	W1	
062102	MTR CNTL ASSY FWD =2	3.53	12.50	23	W2	
062103	MTR CNTL ASSY FWD =3	4.79	18.90	24	W3	
062201	MTR CNTL ASSY MID =1	11.66	22.80	44	FM	
062202	MTR CNTL ASSY MID =2	12.12	13.50	45	FM	
062203	MTR CNTL ASSY MID =3	10.14	20.20	44	FM	
062204	MTR CNTL ASSY MID =4	11.98	13.20	45	FM	
062301	MTR CNTL ASSY AFT =1	8.78	20.00	63	F4	
062302	MTR CNTL ASSY AFT =2	8.27	20.70	64	F5	
062303	MTR CNTL ASSY AFT =3	14.91	30.60	65	F6	
062401	LOAD CNTL ASSY FWD1	21.94	26.78	32	W1	
062402	LOAD CNTL ASSY FWD2	26.61	32.51	33	W2	
062403	LOAD CNTL ASSY FWD3	23.77	29.06	34	W3	
062501	LOAD CNTL ASSY AFT1	73.26	26.98	84	F4	
062502	LOAD CNTL ASSY AFT2	59.24	23.27	85	F5	
062503	LOAD CNTL ASSY AFT3	69.82	31.65	86	F6	
062601	PCA FWD =1	104.47	34.06	22	W1	
062602	PCA FWD =2	51.07	16.65	23	W2	
062603	PCA FWD =3	75.75	24.72	24	W3	
062701	PCA MID =1	39.41	35.47	47	FM	
062702	PCA MID =2	50.40	45.01	48	FM	
062703	PCA MID =3	29.15	25.03	49	FM	
062801	PCA AFT =1	23.56	28.45	72	F4	
062802	PCA AFT =2	22.51	27.18	73	F5	
062803	PCA AFT =3	24.03	29.00	74	F6	
062804	PCA AFT =4	39.50	47.63	60	F4	
062805	PCA AFT =5	47.58	57.38	61	F5	
062806	PCA AFT =6	36.55	44.09	62	F6	
070101	GPC CPU#1-RUN	313.00		31	A1	
070102	GPC CPU#2-RUN	313.00		31	A2	
070103	GPC CPU#3-RUN	313.00		31	A3	
070104	GPC CPU#4-RUN	313.00		31	A1	
070105	GPC CPU#5-RUN	313.00		31	A2	
070201	GPC IOP#1-RUN	340.00		31	A1	
070202	GPC IOP#2-RUN	340.00		31	A2	
070203	GPC IOP#3-RUN	340.00		31	A3	
070204	GPC IOP#4-RUN	340.00		31	A1	
070205	GPC IOP#5-RUN	340.00		31	A2	
070301	MDM FF1	58.00		28	W1	
070302	MDM FF2	60.00		29	W2	

Figure 6.4-18. - Continued

070303	MDM FF3	55.50	30		
070304	MDM FF4	58.60	29	W3	
070401	MDM FA1	54.80	66	F4	
070402	MDM FA2	54.20	67	F5	
070403	MDM FA3	55.60	68	F6	
070404	MDM FA4	56.20	68	F6	
070901	MM -1 TAPE OPER	18.81	22	W1	
070902	MM -2 TAPE OPER	18.81	23	W2	
071001	MDM OFI 1	46.80	19	W1	
071002	MDM OFI 2	46.80	19	W2	
071003	MDM OFI 3	47.40	21	W3	
071004	MDM OFI 4 FLT DECK	40.40	21	W3	
071101	MDM OAI 1	41.30	66	W1	
071102	MDM OAI 2	42.10	67	W2	
071103	MDM OAI 3	42.70	68	W3	
071401	MDM PL 1	54.40	28	W1	
071502	MDM PL 2	56.90	29	W2	
075001	GPC CNTLR 1 PS A	6.68	31	A1	
075002	GPC CNTLR 1 PS B	6.68	31	A1	
075003	GPC CNTLR 2 PS A	6.68	31	A2	
075004	GPC CNTLR 2 PS B	6.68	31	A2	
075005	GPC CNTLR 3 PS A	6.68	31	A2	
075006	GPC CNTLR 3 PS B	1.28	31	A2	
210701	LP ACT GMBL INST/LOG	6.90	72	OT	
210702	LP STB GMBL INST/LOG	6.90	73	OT	
210703	RP ACT GMBL INST/LOG	6.91	74	OT	
210704	RP STB GMBL INST/LOG	6.90	72	OT	
211501	BIPROP VL1 LP POS ID	1.38	72	OT	
211502	BIPROP VL2 LP POS ID	1.38	73	OT	
211503	BIPROP VL1 RP POS ID	1.38	72	OT	
211504	BIPROP VL2 RP POS ID	1.38	74	OT	
212106	TA ISO/XFD VL TLKBACK	1.30	72	AC	
212401	QUAN GAGE TOT-LP-OPR	9.03	78	OT	
212402	QUAN GAGE TOT-RP-OPR	9.03	80	OT	
215101	GSE SR PN HT A-43-LP	4.94	72	OT	
215102	ENG SR PN HT A-37-LP	4.84	7.50	72	OT
215103	OME COVER HT A-53-LP	19.91	18.50	72	OT
215104	Y-WB OTED HT A-27-LP	15.06	14.00	72	OT
215105	Y-WB INBD HT A-33-LP	11.30	10.50	72	OT
215107	CT LN WB HT A1-21-LP	36.40	18.00	72	OT
215108	CT LN WB HT A2-21-LP	38.32	18.00	72	OT
215109	CT LN WB HT A3-21-LP	19.15	18.00	72	OT
215111	CT LN WB HT A4-21-LP	39.28	18.00	72	OT
215112	RCS HSNB HT A1-41-LP	12.42	10.50	72	OT
215113	RCS HSNB HT A2-41-LP	10.72	10.50	72	OT
215301	GSE SR PN HT A-44-RP	4.94	11.50	73	OT
215302	ENG SR PN HT A-38-RP	4.84	7.50	73	OT
215303	OME COVER HT A-54-RP	19.91	18.50	73	OT
215304	Y-WB OTED HT A-28-RP	15.06	14.00	73	OT
215305	Y-WB INBD HT A-34-RP	11.30	10.50	73	OT
215307	CT LN WB HT A1-22-RP	36.40	18.00	73	OT
215308	CT LN WB HT A2-22-RP	38.32	18.00	73	OT
215309	CT LN WB HT A3-22-RP	19.15	18.00	73	OT
215311	CT LN WB HT A4-22-RP	39.28	18.00	73	OT
215312	RCS HSNB HT A1-42-RP	12.42	10.50	73	OT
215313	RCS HSNB HT A2-42-RP	10.72	10.50	73	OT
217001	XFD OX/FU FLXL HTA-L	12.07	34.00	72	OT

Figure 6.4-18. - Continued

217003	XFD	OX/FU	FLXL	HTA-R	12.07	34.00	72	OT
217101	XFD	OX/FU	LNE	HT-A-L	8.05	13.00	72	OT
217103	XFD	OX/FU	LNE	HT-A-R	8.05	13.00	72	OT
217105	XFD	OX/FU	LNE	HT-A-C	11.74	13.00	72	OT
217201	FU	HTPT	BLDLN	HT-A-A	3.77	25.00	72	OT
217203	FU	HTPT	BLDLN	HT-A-M	8.26	34.00	72	OT
217301	OX	HTPT	BLDLN	HT-A-A	3.93	26.00	72	OT
217303	OX	HTPT	BLDLN	HT-A-M	8.50	35.00	72	OT
217401	LOPT	OXFU	DRLN	HTA-L	.51	6.50	72	OT
217403	LOPT	OXFU	DRLN	HTA-R	.51	6.50	72	OT
225101	FWD	RCS	HT-ENG	F1F-X	1.83	8.50	7	OT
225102	FWD	RCS	HT-ENG	F1L+Y	.75	3.50	7	OT
225103	FWD	RCS	HT-ENG	F1U+Z	1.93	9.00	7	OT
225104	FWD	RCS	HT-ENG	F1O+Z	1.07	5.00	7	OT
225105	FWD	RCS	HT-ENG	F2F-X	2.47	11.50	8	OT
225106	FWD	RCS	HT-ENG	F2R-Y	.86	4.00	8	OT
225107	FWD	RCS	HT-ENG	F2U+Z	1.93	9.00	8	OT
225108	FWD	RCS	HT-ENG	F2O+Z	1.18	5.50	8	OT
225109	FWD	RCS	HT-ENG	F3F-X	2.15	10.00	8	OT
225111	FWD	RCS	HT-ENG	F3L+Y	.54	2.50	8	OT
225112	FWD	RCS	HT-ENG	F3U+Z	1.83	8.50	8	OT
225113	FWD	RCS	HT-ENG	F3O+Z	.97	4.50	8	OT
225114	FWD	RCS	HT-ENG	F4R-Y	.75	3.50	9	OT
225115	FWD	RCS	HT-ENG	F4O+Z	.86	4.00	9	OT
225201	AFT	RCS	HT-ENG	R1R-Y	.43	2.00	85	OT
225202	AFT	RCS	HT-ENG	R2R-Y	.43	2.00	84	OT
225203	AFT	RCS	HT-ENG	R3R-Y	.43	2.00	86	OT
225204	AFT	RCS	HT-ENG	R4R-Y	.43	2.00	86	OT
225205	AFT	RCS	HT-ENG	R2O+Z	.43	2.00	84	OT
225206	AFT	RCS	HT-ENG	R3O+Z	.43	2.00	86	OT
225207	AFT	RCS	HT-ENG	R4O+Z	.43	2.00	86	OT
225208	AFT	RCS	HT-ENG	R1U+Z	.64	3.00	85	OT
225209	AFT	RCS	HT-ENG	R2U+Z	.64	3.00	84	OT
225211	AFT	RCS	HT-ENG	R4U+Z	.64	3.00	86	OT
225212	AFT	RCS	HT-ENG	R1A+X	.65	2.00	85	OT
225213	AFT	RCS	HT-ENG	R3A+X	1.29	4.00	86	OT
225301	AFT	RCS	HT-ENG	L1L+Y	.43	2.00	85	OT
225302	AFT	RCS	HT-ENG	L2L+Y	.43	2.00	84	OT
225303	AFT	RCS	HT-ENG	L3L+Y	.43	2.00	86	OT
225304	AFT	RCS	HT-ENG	L4L+Y	.43	2.00	86	OT
225305	AFT	RCS	HT-ENG	L2O+Z	.43	2.00	84	OT
225306	AFT	RCS	HT-ENG	L3O+Z	.43	2.00	86	OT
225307	AFT	RCS	HT-ENG	L4O+Z	.43	2.00	86	OT
225308	AFT	RCS	HT-ENG	L1U+Z	.64	3.00	85	OT
225309	AFT	RCS	HT-ENG	L2U+Z	.64	3.00	84	OT
225311	AFT	RCS	HT-ENG	L4U+Z	.64	3.00	86	OT
225312	AFT	RCS	HT-ENG	L1A+X	.65	2.00	85	OT
225313	AFT	RCS	HT-ENG	L3A+X	1.29	4.00	86	OT
225401	FWD	VRN	HT-ENG	F5R	1.50	5.50	9	OT
225402	FWD	VRN	HT-ENG	F5L	.54	2.50	9	OT
225501	AFT	VRN	HT-ENG	R5O+Z	.43	4.00	86	OT
225502	AFT	VRN	HT-ENG	R5R-Y	2.21	20.50	86	OT
225503	AFT	VRN	HT-ENG	L5O+Z	.43	4.00	86	OT
225504	AFT	VRN	HT-ENG	L5L+Y	2.21	20.50	86	OT
300201	FCP	-1	02	FLOWMETER	5.99		47	OT
300202	FCP	-2	02	FLOWMETER	6.13		48	OT
300203	FCP	-3	02	FLOWMETER	6.16		49	OT

Figure 6.4-18. - Continued

300301	FCP 1 H2 FLOWMETER	5.99	47	OT			
300302	FCP 2 H2 FLOWMETER	6.13	48	OT			
300303	FCP 3 H2 FLOWMETER	6.16	49	OT			
300401	FCP 1 EL CTL ORBT	4.79	38	OT			
300402	FCP 2 EL CTL ORBT	4.77	39	OT			
300403	FCP 3 EL CTL ORBT	4.68	40	OT			
300501	FCP 1 PMP H2O SENSOR	236.08	201	OT	180.50		
300502	FCP 2 PMP H2O SENSOR	236.34	202	OT		180.80	
300503	FCP 3 PMP H2O SENSOR	239.97	203	OT			183.50
305301	H2O VENT LN HTR A	.61	43	OT			
305401	FCP 1 H2O RLF VL HT A	.24	47	OT			
305402	FCP 2 H2O RLF VL HT A	.24	47	OT			
305403	FCP 3 H2O RLF VL HT A	.24	47	OT			
305405	H2O NOZ BARREL HTR A	1.42	42	OT			
305601	O2 INK 1 SIG COND QTY	2.22	42	OT			
310301	O2 INK 1 SIG COND QTY	2.22	42	OT			
310302	O2 INK 2 SIG COND QTY	2.22	41	OT			
310303	O2 INK 3 SIG COND QTY	2.22	41	OT			
320201	APU 1 FU ISO VLV 1	31.98	63	OT			
320202	APU 1 FU ISO VLV 2	31.98	64	OT			
320203	APU 2 FU ISO VLV 1	31.98	64	OT			
320204	APU 3 FU ISO VLV 2	31.67	65	OT			
320205	APU 3 FU ISO VLV 1	31.97	65	OT			
320206	APU 3 FU ISO VLV 2	31.98	63	OT			
320301	APU 1 CNTLR-OPERATE	19.97	66	F4			
320302	APU 2 CNTLR-OPERATE	19.97	67	F5			
320303	APU 3 CNTLR-OPERATE	19.97	68	F6			
320401	APU 1 SHUTOFF VLV	35.46	66	OT			
320402	APU 2 SHUTOFF VLV	35.47	67	OT			
320403	APU 3 SHUTOFF VLV	35.47	68	OT			
320501	APU 1 MODULATING VLV	17.74	66	OT	50.00		
320502	APU 2 MODULATING VLV	17.74	67	OT	50.00		
320503	APU 3 MODULATING VLV	17.73	68	OT	50.00		
325201	FUEL FEEDLINE HTR 1A	67.70	84	OT			
325202	FUEL FEEDLINE HTR 2A	81.00	85	OT			
325203	FUEL FEEDLINE HTR 3A	47.70	86	OT			
325301	FUEL SERVLINE HTR 1A	18.06	84	OT	28.00		
325302	FUEL SERVLINE HTR 2A	13.36	85	OT	28.00		
325303	FUEL SERVLINE HTR 3A	18.06	86	OT	28.00		
325401	FUEL DRN LINE HTR 1A	11.10	84	OT	27.00		
325402	FUEL DRN LINE HTR 2A	14.39	85	OT	27.00		
325403	FUEL DRN LINE HTR 3A	9.16	86	OT	28.00		
325801	APU 1 PRI H2O HTR 1A	9.90	75	OT	35.00		
325802	APU 2 PRI H2O HTR 1A	2.87	76	OT	35.00		
325803	APU 3 PRI H2O HTR 1A	9.38	77	OT	35.00		
325901	APU 1 SEC H2O HTR 2A	10.53	75	OT	35.00		
325902	APU 2 SEC H2O HTR 2A	4.79	76	OT	35.00		
325903	APU 3 SEC H2O HTR 2A	4.79	77	OT	35.00		
326301	GG H2O TK LN HT 504A	4.37	75	OT	35.00		
326302	GG H2O TK LN HT 503A	7.94	77	OT	35.00		
400101	CABIN FAN A	646.02	203	HX			494.00
400201	CAB AIR TEMP CNT PRI	4.42	214	AC	20.00	16.90A	
400301	CAB AIR TMR CNL PPR	5.23	214	AC		4.00A	
400400	CAB AIR SIGNAL COND	4.84	212	AC		3.70B	
400502	ARS HUMIDITY SEP B	37.25	202	AC		28.50	
400600	ARS HUM SEP SIG END	2.35	217	AC			1.80A
400701	PP02 CNTLR-SYS 1	.71	16	AC			

Figure 6.4-18. - Continued

400702	PP02 CNTRL-SYS 2	.71		17	AC			
400711	O2 CONTROL VLV-SYS 1	4.74	50.00	16	AC			
400712	O2 CONTROL VLV-SYS 2	4.75	50.00	17	AC			
400731	CABIN PRESS SENSOR	.71		16	AC			
400732	CAB PRES DECAY SENS	2.02		17	AC			
400751	O2 FLOW SENSOR-SYS 1	1.01		16	AC			
400752	O2 FLOW SENSOR-SYS 2	1.01		17	AC			
400753	N2 FLOW SENSOR-SYS 1	1.01		16	AC			
400754	N2 FLOW SENSOR-SYS 2	1.01		17	AC			
400761	PP02 SENSOR-SYS 1	.81		16	AC			
400762	PP02 SENSOR-SYS 2	.81		17	AC			
400763	PP02 SENSOR-SYS 3	.81		17	AC			
400802	AVION FAN-BAY 1 (B)	219.61		202	A1	168.00		
400803	AVION FAN-BAY 2 (A)	219.07		202	A2	161.00		
400806	AVION FAN-BAY 3 (B)	219.73		201	A3	168.00		
400901	AVION BAY 1 SIG COND	3.14		218	AC		2.408	
400902	AVION BAY 2 SIG COND	2.35		212	AC	1.808		
400903	AVION BAY 3 SIG COND	3.27		215	AC		2.508	
401001	SMOKE DT SNR-L FLT D	6.56		16	OT			
401002	SMOKE DT SNR-R FLT D	6.56		16	OT			
401003	S D SNR A - BAY 1	6.60		18	OT			
401004	S D SNR B - BAY 1	6.56		17	OT			
401005	S D SNR A - BAY 2	6.56		16	OT			
401006	S D SNR B - BAY 2	6.60		18	OT			
401007	S D SNR A - BAY 3	6.56		17	OT			
401008	S D SNR B - BAY 3	6.56		16	OT			
401009	S D SNR - CABIN	6.60		18	OT			
401102	IMU FAN B	63.53		202	WC	48.60		
401200	IMU FAN SIG COND	2.35		218	AC			
401303	H2O PUMP - LOOP 2	250.82		203	WC		1.808	
401501	H2O BYPASS CN SC-PRI	7.71		217	AC		5.90A	
401502	H2O BYPASS CN SC-SEC	7.72		211	AC		191.80	
402901	FREON PMP LP 1-A ASC	489.17	*	201	FP	5.90A		
402903	FREON PMP LP 2-A ASC	489.09	*	203	FP	374.00		
403001	FREON-COOL LP1 INSTR	6.54		215	OT			
403002	FREON COOL LP2 INSTR	6.54		218	OT			
405001	NH3 SYSTEM CNTRL A	6.04		87	OT			
405002	NH3 SYSTEM CNTRL B	5.85		88	OT			
405101	NH3 ISO VLV-SYS A	9.06		89	OT			
405102	NH3 ISO VLV-SYS B	8.97		88	OT			
405201	NH3 CNTRL VLV-SYS A	7.92		84	OT			
405203	NH3 CNTRL VLV-SYS B	7.92		86	OT			
406000	VACUUM VHT NOZ HTR	11.40		5	OT			
408201	SEC FWTR LN HTA-TS11	1.48	7.00	86	OT			
408203	SEC FWTR LN HTA-TS12	3.39	16.00	86	OT			
408205	SEC FWTR LN HTA-TS13	11.24	22.00	49	OT			
408207	SEC FWTR LN HTA-TS3	6.29	13.00	86	OT			
409001	TOP'G DUCT HTR1 SEC1	159.14	42.00	47	OT			
409101	TOP'G DUCT HTR1 SEC2	175.72	37.50	47	OT			
409201	TOP'G DUCT HTR1 SEC3	18.28	31.50	84	OT			
409301	TOP'G DUCT HTR1 SEC4	20.41	31.50	84	OT			
409401	SONIC LFT NOZ HTR 1A	6.87	27.50	84	OT			
409501	SONIC RHT NOZ HTR 2A	6.79	27.50	85	OT			
500100	LG EXTEND VLV	16.93		22	OT			
500300	LAND GEAR DUMP VLV	16.93		22	OT			
500500	REDUND SHUTOFF VLV	16.48		29	OT			
500801	RESVOIR -1 VOL SNR	1.83		212	OT	1.408		

Figure 6.4-18. - Continued

500802	RESVOIR -2 VOL SHSR	1.83	215	OT		1.40B	
500803	RESVOIR -3 VOL SHSR	1.83	215	OT		1.40B	1.40B
501801	RUD/SPBRK SW VL ACT 1	1.31	213	OT	1.00C	1.00C	
501802	RUD/SPDBK SW VL PS2	1.32	216	OT		1.00C	
501901	ME 1 PITCH SW V ACTV	1.32	216	OT		1.00C	
501902	ME 1 YAW SW ACTV	1.32	216	OT		1.00C	
501903	ME 2 PITCH SW V ACTV	1.32	216	OT		1.00C	
501904	ME 2 YAW SW V ACTV	1.32	216	OT		1.00C	
501905	ME 3 PITCH SW V ACTV	1.32	216	OT		1.00C	
501906	ME 3 YAW SW V ACTV	1.32	216	OT		1.00C	
502001	ELV ACT SW V ACT-LO	1.31	213	OT	1.00C	1.00C	
502002	ELV ACT SW V PS2-LO	1.32	215	OT		1.00C	
502003	ELV ACT SW V ACT-LI	1.31	216	OT	1.00C	1.00C	
502004	ELV ACT SW V PS2-LI	1.32	213	OT		1.00C	
502005	ELV ACT SW V ACT-RI	1.31	215	OT	1.00C	1.00C	
502006	ELV ACT SW V PS2-RI	1.32	213	OT		1.00C	
502007	ELV ACT SW V ACT-RO	1.31	214	OT	1.00C	1.00C	
502008	ELV ACT SW V PS2-RO	1.32	214	OT		1.00C	
503301	H2O BR1 HYD H2O CT A	14.72	65	OT			
503303	H2O BR2 HYD H2O CT A	12.73	63	OT			
503305	H2O BR3 HYD H2O CT A	11.70	64	OT			
503491	H2O BR1 APU H2O CT A	14.72	65	OT			
503403	H2O BR2 APU H2O CT A	12.73	63	OT			
503405	H2O BR3 APU H2O CT A	11.70	64	OT			
503701	H2O BLR1 CNT LOGIC A	4.71	217	OT			
503703	H2O BLR2 CNT LOGIC A	3.92	213	OT	3.00C		3.60A
503705	H2O BLR3 CNT LOGIC A	3.79	214	OT		2.90A	
503801	H2O BOILP 1 CNTL A	.78	65	OT			
503803	H2O BOILP 2 CNTL A	.68	63	OT			
503805	H2O BOILP 3 CNTL A	.78	64	OT			
505401	WSR VENT NOZZ HTR 1A	73.60	65	OT			
505403	WSB VENT NOZZ HTR 2A	61.50	63	OT			
505405	WSB VENT NOZZ HTR 3A	59.10	64	OT			
522600	NOSE WHEEL STLR UNT	39.34	16	OT			
522701	BRK/SKID CNTL BOX A	17.60	30	A1			
522702	BRK/SKID CNTL BOX B	17.58	30	A2			
525101	LEFT ADP HT-MAST	240.00	28	OT			
525102	LEFT ADP HT-ITKPR	355.00	28	OT			
525103	LEFT ADP HT-PROBF	266.00	28	OT			
525104	RIGHT ADP HT-MAST	240.00	29	OT			
525105	RIGHT ADP HT-ITKPR	355.00	29	OT			
525106	RIGHT ADP HT-PROBF	266.00	29	OT			
600301	ESCAPE SUIT VT ASY L	95.08	11	AC			
600302	ESCAPE SUIT VT ASY R	94.32	10	AC			
			TOTAL INVERTER WATTS	=	2051.72	1351.79	1941.54
			TOTAL 3 PHASE WATTS	=	958.60	591.00	1245.40
			TOTAL A PHASE WATTS	=	250.60	163.80	20.80
			TOTAL B PHASE WATTS	=	201.40	175.60	68.40
			TOTAL C PHASE WATTS	=	168.00	171.00	160.00

Figure 6.4-18. - Concluded

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TOTAL WATTS = 22079.46
END OF LISTINGS OF ALL ACTIVE COMPONENTS AT TIME 054:31:44.0

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